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EVALUATION of EDUCATIONAL ACHIEVEMENT

ASSOCIATION INTERNATIONALE pour
L'EVALUATION DU RENDEMENT SCOLAIRE

SECOND

Study of

MATHEMATICS



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JAPAN - POPULATION A

FREQUENCIES

Ian Westbury
Vijay Thalathoti

JPNAT

Classroom Student Questionnaire - Country

Classroom Student Questionnaire - Age

Classroom Student Questionnaire - Pre test

Classroom Student Questionnaire - Post test

Classroom Student Questionnaire - General

FRAAT

Classroom Student Questionnaire - Country

Classroom Student Questionnaire - Age

Classroom Student Questionnaire - General

FRAAT

Classroom Student Questionnaire - Pre test

Classroom Student Questionnaire - Post test

Classroom Student Questionnaire - Pre test

Classroom Student Questionnaire - Post test

Classroom Student Questionnaire - Pre test

Classroom Student Questionnaire - Post test

COLLEGE OF EDUCATION
UNIVERSITY OF ILLINOIS AT URBANA - CHAMPAIGN
1989

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JPNA 1

CLASS ATTITUDES - SUMMARY OF YEAR

CLASS	ATTITUDE	SCORE	CLASS	ATTITUDE	SCORE
101	101	101	101	101	101
102	102	102	102	102	102
103	103	103	103	103	103
104	104	104	104	104	104
105	105	105	105	105	105
106	106	106	106	106	106
107	107	107	107	107	107
108	108	108	108	108	108
109	109	109	109	109	109
110	110	110	110	110	110
111	111	111	111	111	111
112	112	112	112	112	112
113	113	113	113	113	113
114	114	114	114	114	114
115	115	115	115	115	115
116	116	116	116	116	116
117	117	117	117	117	117
118	118	118	118	118	118
119	119	119	119	119	119
120	120	120	120	120	120
121	121	121	121	121	121
122	122	122	122	122	122
123	123	123	123	123	123
124	124	124	124	124	124
125	125	125	125	125	125
126	126	126	126	126	126
127	127	127	127	127	127
128	128	128	128	128	128
129	129	129	129	129	129
130	130	130	130	130	130
131	131	131	131	131	131
132	132	132	132	132	132
133	133	133	133	133	133
134	134	134	134	134	134
135	135	135	135	135	135
136	136	136	136	136	136
137	137	137	137	137	137
138	138	138	138	138	138
139	139	139	139	139	139
140	140	140	140	140	140
141	141	141	141	141	141
142	142	142	142	142	142
143	143	143	143	143	143
144	144	144	144	144	144
145	145	145	145	145	145
146	146	146	146	146	146
147	147	147	147	147	147
148	148	148	148	148	148
149	149	149	149	149	149
150	150	150	150	150	150
151	151	151	151	151	151
152	152	152	152	152	152
153	153	153	153	153	153
154	154	154	154	154	154
155	155	155	155	155	155
156	156	156	156	156	156
157	157	157	157	157	157
158	158	158	158	158	158
159	159	159	159	159	159
160	160	160	160	160	160
161	161	161	161	161	161
162	162	162	162	162	162
163	163	163	163	163	163
164	164	164	164	164	164
165	165	165	165	165	165
166	166	166	166	166	166
167	167	167	167	167	167
168	168	168	168	168	168
169	169	169	169	169	169
170	170	170	170	170	170
171	171	171	171	171	171
172	172	172	172	172	172
173	173	173	173	173	173
174	174	174	174	174	174
175	175	175	175	175	175
176	176	176	176	176	176
177	177	177	177	177	177
178	178	178	178	178	178
179	179	179	179	179	179
180	180	180	180	180	180
181	181	181	181	181	181
182	182	182	182	182	182
183	183	183	183	183	183
184	184	184	184	184	184
185	185	185	185	185	185
186	186	186	186	186	186
187	187	187	187	187	187
188	188	188	188	188	188
189	189	189	189	189	189
190	190	190	190	190	190
191	191	191	191	191	191
192	192	192	192	192	192
193	193	193	193	193	193
194	194	194	194	194	194
195	195	195	195	195	195
196	196	196	196	196	196
197	197	197	197	197	197
198	198	198	198	198	198
199	199	199	199	199	199
200	200	200	200	200	200

Class level Student attitudes

CLASS ATTITUDES -- BEGINNING OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN
PXCHKEA	A-EASY..CHECKING AN ANSWER	209	4	0.15
PXCHKED	D-EASY..CHECKING AN ANSWER	209	4	0.47
PXCHKIA	A-IMPORTANT..CHECKING AN ANSWER	209	4	0.87
PXCHKID	D-IMPORTANT..CHECKING AN ANSWER	209	4	0.02
PXCHKLA	A-LIKE..CHECKING AN ANSWER	209	4	0.28
PXCHKLD	D-LIKE..CHECKING AN ANSWER	209	4	0.33
PXMMEA	A-EASY..MEMORIZING RULES FORMULAS	209	4	0.26
PXMMED	D-EASY..MEMORIZING RULES FORMULAS	209	4	0.38
PXMMEA	A-IMP..MEMORIZING RULES FORMULAS	209	4	0.95
PXMEMID	D-IMP..MEMORIZING RULES FORMULAS	209	4	0.01
PXMEMLA	A-LIKE..MEMORIZING RULES FORMULAS	209	4	0.33
PXMEMLD	D-LIKE..MEMORIZING RULES FORMULAS	209	4	0.18
PXCHRTA	A-EASY..USING CHARTS GRAPHS	209	4	0.28
PXCHRTED	D-EASY..USING CHARTS GRAPHS	209	4	0.21
PXCHRTIA	A-IMPORT..USING CHARTS GRAPHS	209	4	0.70
PXCHRTID	D-IMPORT..USING CHARTS GRAPHS	209	4	0.08
PXCHRTLA	A-LIKE..USING CHARTS GRAPHS	209	4	0.25
PXCHRTLD	D-LIKE..USING CHARTS GRAPHS	209	4	0.17
PXWPEA	A-EASY..SOLVING WORD PROBLEMS	209	4	0.34
PXWPED	D-EASY..SOLVING WORD PROBLEMS	209	4	0.16
PXWPIA	A-IMP..SOLVING WORD PROBLEMS	209	4	0.94
PXWPID	D-IMP..SOLVING WORD PROBLEMS	209	4	0.01
PXWPLA	A-LIKE..SOLVING WORD PROBLEMS	209	4	0.21
PXWPLD	D-LIKE..SOLVING WORD PROBLEMS	209	4	0.18
PXEQUAEA	A-EASY..SOLVING EQUATIONS	209	4	0.49
PXEQUAED	D-EASY..SOLVING EQUATIONS	209	4	0.14
PXEQUAIA	A-IMPORT..SOLVING EQUATIONS	209	4	0.79
PXEQUAID	D-IMPORT..SOLVING EQUATIONS	209	4	0.04
PXEQUALA	A-LIKE..SOLVING EQUATIONS	209	4	0.50
PXEQUALD	D-LIKE..SOLVING EQUATIONS	209	4	0.13
PXINEQEA	A-EASY..SOLVING INEQUALITIES	209	4	0.13
PXINEQED	D-EASY..SOLVING INEQUALITIES	209	4	0.28
PXINEQIA	A-IMP..SOLVING INEQUALITIES	209	4	0.77
PXINEQID	D-IMP..SOLVING INEQUALITIES	209	4	0.02
PXINEQLA	A-LIKE..SOLVING INEQUALITIES	209	4	0.18
PXINEQLD	D-LIKE..SOLVING INEQUALITIES	209	4	0.21
PXGEOMEA	A-EASY..LEARNING GEOMETRIC FIGURES	209	4	0.31
PXGEOMED	D-EASY..LEARNING GEOMETRIC FIGURES	209	4	0.14
PXGEOMIA	A-IMP..LEARNING GEOMETRIC FIGURES	209	4	0.65
PXGEOMID	D-IMP..LEARNING GEOMETRIC FIGURES	209	4	0.06
PXGEOMLA	A-LIKE..LEARNING GEOMETRIC FIGURES	209	4	0.28
PXGEOMLD	D-LIKE..LEARNING GEOMETRIC FIGURES	209	4	0.13
PXESTEA	A-EASY..ESTIMATING ANSWERS	209	4	0.47
PXESTED	D-EASY..ESTIMATING ANSWERS	209	4	0.17
PXESTIA	A-IMP..ESTIMATING ANSWERS	209	4	0.74
PXESTID	D-IMP..ESTIMATING ANSWERS	209	4	0.07
PXESTLA	A-LIKE..ESTIMATING ANSWERS	209	4	0.53
PXESTLD	D-LIKE..ESTIMATING ANSWERS	209	4	0.14
PXRATEA	A-EASY..LEARNING RATIO PROPORTION	209	4	0.36
PXRATED	D-EASY..LEARNING RATIO PROPORTION	209	4	0.26
PXRATIA	A-IMP..LEARNING RATIO PROPORTION	209	4	0.79
PXRATID	D-IMP..LEARNING RATIO PROPORTION	209	4	0.05
PXRATLA	A-LIKE..LEARNING RATIO PROPORTION	209	4	0.39
PXRATLD	D-LIKE..LEARNING RATIO PROPORTION	209	4	0.23
PXDECEA	A-EASY..DECIMAL FRACTION PROBLEMS	209	4	0.41
PXDECED	D-EASY..DECIMAL FRACTION PROBLEMS	209	4	0.18
PXDECIA	A-IMPORT..DECIMAL FRACTION PROBLEMS	209	4	0.81
PXDECID	D-IMPORT..DECIMAL FRACTION PROBLEMS	209	4	0.04
PXDECLA	A-LIKE..DECIMAL FRACTION PROBLEMS	209	4	0.41
PXDECLD	D-LIKE..DECIMAL FRACTION PROBLEMS	209	4	0.19
PXSETSEA	A-EASY..WORKING WITH SETS	209	4	0.46
PXSETSED	D-EASY..WORKING WITH SETS	209	4	0.15
PXSETSIA	A-IMP..WORKING WITH SETS	209	4	0.69
PXSETSID	D-IMP..WORKING WITH SETS	209	4	0.09
PXSETSLA	A-LIKE..WORKING WITH SETS	209	4	0.48
PXSETSLD	D-LIKE..WORKING WITH SETS	209	4	0.13
PXMEASEA	A-EASY..LEARNING UNITS OF MEASURE	209	4	0.25
PXMEASED	D-EASY..LEARNING UNITS OF MEASURE	209	4	0.38
PXMEASIA	A-IMP..LEARNING UNITS OF MEASURE	209	4	0.92
PXMEASID	D-IMP..LEARNING UNITS OF MEASURE	209	4	0.02
PXMEASLA	A-LIKE..LEARNING UNITS OF MEASURE	209	4	0.35

CLASS ATTITUDES -- BEGINNING OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN
PXMEASLD	D-LIKE..LEARNING UNITS OF MEASURE	209	4	0.31
PXDRAWEA	A-EASY..DRAWING GEOMETRIC FIGURES	209	4	0.46
PXDRAWEA	D-EASY..DRAWING GEOMETRIC FIGURES	209	4	0.16
PXDRAWIA	A-IMPORT..DRAWING GEOMETRIC FIGURES	209	4	0.71
PXDRAWID	D-IMPORT..DRAWING GEOMETRIC FIGURES	209	4	0.07
PXDRAWLA	A-LIKE..DRAWING GEOMETRIC FIGURES	209	4	0.55
PXDRAWLD	D-LIKE..DRAWING GEOMETRIC FIGURES	209	4	0.15
PXSTATEA	A-EASY..STATISTICAL TABLES	209	4	0.23
PXSTATED	D-EASY..STATISTICAL TABLES	209	4	0.22
PXSTATIA	A-IMP..STATISTICAL TABLES	209	4	0.78
PXSTATID	D-IMP..STATISTICAL TABLES	209	4	0.03
PXSTATLA	A-LIKE..STATISTICAL TABLES	209	4	0.23
PXSTATLD	D-LIKE..STATISTICAL TABLES	209	4	0.22
PXFIGEA	A-EASY..COMPARING GEOMETRIC FIGURES	209	4	0.33
PXFIGED	D-EASY..COMPARING GEOMETRIC FIGURES	209	4	0.12
PXFIGIA	A-IMP..COMPARING GEOMETRIC FIGURES	209	4	0.57
PXFIGID	D-IMP..COMPARING GEOMETRIC FIGURES	209	4	0.10
PXFIGLA	A-LIKE..COMPARING GEOMETRIC FIGURES	209	4	0.30
PXFIGLD	D-LIKE..COMPARING GEOMETRIC FIGURES	209	4	0.14
PXFRACEA	A-EASY..SOLVING FRACTIONS	209	4	0.45
PXFRACED	D-EASY..SOLVING FRACTIONS	209	4	0.19
PXFRACIA	A-IMP..SOLVING FRACTIONS	209	4	0.84
PXFRACID	D-IMP..SOLVING FRACTIONS	209	4	0.04
PXFRACLA	A-LIKE..SOLVING FRACTIONS	209	4	0.53
PXFRACLD	D-LIKE..SOLVING FRACTIONS	209	4	0.16

JAPAN - POPULATION A
CLASS ATTITUDES -- END OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN
PYCHKEA	33:A-EASY..CHECKING AN ANSWER	209	4	0.20
PYCHKED	33:D-EASY..CHECKING AN ANSWER	209	4	0.20
PYCHKIA	33:A-IMPORTANT..CHECKING AN ANSWER	209	4	0.92
PYCHKID	33:D-IMPORTANT..CHECKING AN ANSWER	209	4	0.01
PYCHKLA	33:A-LIKE..CHECKING AN ANSWER	209	4	0.12
PYCHKLD	33:D-LIKE..CHECKING AN ANSWER	209	4	0.27
PYMEMEA	17:A-EASY..MEMORIZING RULES FORMULAS	209	4	0.18
PYMEMED	17:D-EASY..MEMORIZING RULES FORMULAS	209	4	0.43
PYMEMIA	17:A-IMP..MEMORIZING RULES FORMULAS	209	4	0.93
PYMEMID	17:D-IMP..MEMORIZING RULES FORMULAS	209	4	0.01
PYMEMLA	17:A-LIKE..MEMORIZING RULES FORMULAS	209	4	0.20
PYMEMLD	17:D-LIKE..MEMORIZING RULES FORMULAS	209	4	0.27
PYCHRTA	18:A-EASY..USING CHARTS GRAPHS	209	4	0.37
PYCHRTD	18:D-EASY..USING CHARTS GRAPHS	209	4	0.16
PYCHRTIA	18:A-IMPORT..USING CHARTS GRAPHS	209	4	0.71
PYCHRTID	18:D-IMPORT..USING CHARTS GRAPHS	209	4	0.05
PYCHRTLA	18:A-LIKE..USING CHARTS GRAPHS	209	4	0.36
PYCHRTLD	18:D-LIKE..USING CHARTS GRAPHS	209	4	0.19
PYWPEA	19:A-EASY..SOLVING WORD PROBLEMS	209	4	0.08
PYWPED	19:D-EASY..SOLVING WORD PROBLEMS	209	4	0.58
PYWPIA	19:A-IMP..SOLVING WORD PROBLEMS	209	4	0.88
PYWPID	19:D-IMP..SOLVING WORD PROBLEMS	209	4	0.02
PYWPLA	19:A-LIKE..SOLVING WORD PROBLEMS	209	4	0.19
PYWPLD	19:D-LIKE..SOLVING WORD PROBLEMS	209	4	0.46
PYEQUAEA	2:A-EASY..SOLVING EQUATIONS	209	4	0.34
PYEQUAED	2:D-EASY..SOLVING EQUATIONS	209	4	0.29
PYEQUAIA	2:A-IMPORT..SOLVING EQUATIONS	209	4	0.84
PYEQUAID	2:D-IMPORT..SOLVING EQUATIONS	209	4	0.03
PYEQUALA	2:A-LIKE..SOLVING EQUATIONS	209	4	0.45
PYEQUALD	2:D-LIKE..SOLVING EQUATIONS	209	4	0.22
PYINEQEA	21:A-EASY..SOLVING INEQUALITIES	209	4	0.18
PYINEQED	21:D-EASY..SOLVING INEQUALITIES	209	4	0.22
PYINEQIA	21:A-IMP..SOLVING INEQUALITIES	209	4	0.61
PYINEQID	21:D-IMP..SOLVING INEQUALITIES	209	4	0.07
PYINEQLA	21:A-LIKE..SOLVING INEQUALITIES	209	4	0.14
PYINEQLD	21:D-LIKE..SOLVING INEQUALITIES	209	4	0.25
PYGEOMEA	22:A-EASY..LEARNING GEOMETRIC FIGURES	209	4	0.29
PYGEOMED	22:D-EASY..LEARNING GEOMETRIC FIGURES	209	4	0.23
PYGEOMIA	22:A-IMP..LEARNING GEOMETRIC FIGURES	209	4	0.64
PYGEOMID	22:D-IMP..LEARNING GEOMETRIC FIGURES	209	4	0.10
PYGEOMLA	22:A-LIKE..LEARNING GEOMETRIC FIGURES	209	4	0.36
PYGEOMLD	22:D-LIKE..LEARNING GEOMETRIC FIGURES	209	4	0.22
PYESTEA	23:A-EASY..ESTIMATING ANSWERS	209	4	0.16
PYESTED	23:D-EASY..ESTIMATING ANSWERS	209	4	0.21
PYESTIA	23:A-IMP..ESTIMATING ANSWERS	209	4	0.59
PYESTID	23:D-IMP..ESTIMATING ANSWERS	209	4	0.09
PYESTLA	23:A-LIKE..ESTIMATING ANSWERS	209	4	0.12
PYESTLD	23:D-LIKE..ESTIMATING ANSWERS	209	4	0.21
PYRATEA	24:A-EASY..LEARNING RATIO PROPORTION	209	4	0.23
PYRATED	24:D-EASY..LEARNING RATIO PROPORTION	209	4	0.25
PYRATIA	24:A-IMP..LEARNING RATIO PROPORTION	209	4	0.71
PYRATID	24:D-IMP..LEARNING RATIO PROPORTION	209	4	0.06
PYRATLA	24:A-LIKE..LEARNING RATIO PROPORTION	209	4	0.23
PYRATLD	24:D-LIKE..LEARNING RATIO PROPORTION	209	4	0.26
PYDECEA	25:A-EASY..DECIMAL FRACTION PROBLEMS	209	4	0.27
PYDECED	25:D-EASY..DECIMAL FRACTION PROBLEMS	209	4	0.21
PYDECIA	25:A-IMPORT..DECIMAL FRACTION PROBLEMS	209	4	0.75
PYDECID	25:D-IMPORT..DECIMAL FRACTION PROBLEMS	209	4	0.05
PYDECLA	25:A-LIKE..DECIMAL FRACTION PROBLEMS	209	4	0.23
PYDECLD	25:D-LIKE..DECIMAL FRACTION PROBLEMS	209	4	0.27
PYSETSEA	26:A-EASY..WORKING WITH SETS	209	4	0.28
PYSETSED	26:D-EASY..WORKING WITH SETS	209	4	0.20
PYSETSIA	26:A-IMP..WORKING WITH SETS	209	4	0.52
PYSETSID	26:D-IMP..WORKING WITH SETS	209	4	0.15
PYSETSLA	26:A-LIKE..WORKING WITH SETS	209	4	0.21
PYSETSLD	26:D-LIKE..WORKING WITH SETS	209	4	0.28
PYMEASEA	27:A-EASY..LEARNING UNITS OF MEASURE	209	4	0.25
PYMEASED	27:D-EASY..LEARNING UNITS OF MEASURE	209	4	0.31
PYMEASIA	27:A-IMP..LEARNING UNITS OF MEASURE	209	4	0.87
PYMEASID	27:D-IMP..LEARNING UNITS OF MEASURE	209	4	0.02

JAPAN - POPULATION A
CLASS ATTITUDES -- END OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN
PYMEASLA	27:A-LIKE..LEARNING UNITS OF MEASURE	209	4	0.31
PYMEASLD	27:D-LIKE..LEARNING UNITS OF MEASURE	209	4	0.28
PYDRAWEA	28:A-EASY..DRAWING GEOMETRIC FIGURES	209	4	0.40
PYDRAWED	28:D-EASY..DRAWING GEOMETRIC FIGURES	209	4	0.17
PYDRAWIA	28:A-IMPORT..DRAWING GEOMETRIC FIGURES	209	4	0.64
PYDRAWID	28:D-IMPORT..DRAWING GEOMETRIC FIGURES	209	4	0.10
PYDRAWLA	28:A-LIKE..DRAWING GEOMETRIC FIGURES	209	4	0.48
PYDRAWLD	28:D-LIKE..DRAWING GEOMETRIC FIGURES	209	4	0.17
PYSTATEA	29:A-EASY..STATISTICAL TABLES	209	4	0.15
PYSTATED	29:D-EASY..STATISTICAL TABLES	209	4	0.26
PYSTATIA	29:A-IMP..STATISTICAL TABLES	209	4	0.70
PYSTATID	29:D-IMP..STATISTICAL TABLES	209	4	0.04
PYSTATLA	29:A-LIKE..STATISTICAL TABLES	209	4	0.14
PYSTATLD	29:D-LIKE..STATISTICAL TABLES	209	4	0.27
PYFIGEA	3:A-EASY..COMPARING GEOMETRIC FIGURES	209	4	0.22
PYFIGED	3:D-EASY..COMPARING GEOMETRIC FIGURES	209	4	0.14
PYFIGIA	3:A-IMP..COMPARING GEOMETRIC FIGURES	209	4	0.44
PYFIGID	3:D-IMP..COMPARING GEOMETRIC FIGURES	209	4	0.13
PYFIGLA	3:A-LIKE..COMPARING GEOMETRIC FIGURES	209	4	0.17
PYFIGLD	3:D-LIKE..COMPARING GEOMETRIC FIGURES	209	4	0.18
PYFRACEA	A-EASY..SOLVING FRACTIONS	209	4	0.25
PYFRACED	D-EASY..SOLVING FRACTIONS	209	4	0.27
PYFRACIA	A-IMP..SOLVING FRACTIONS	209	4	0.75
PYFRACID	D-IMP..SOLVING FRACTIONS	209	4	0.05
PYFRACLA	A-LIKE..SOLVING FRACTIONS	209	4	0.28
PYFRACLD	D-LIKE..SOLVING FRACTIONS	209	4	0.29
PYMHISEA	A-EASY..HISTORY MATH	209	4	0.10
PYMHISED	D-EASY..HISTORY MATHS	209	4	0.22
PYMHISIA	A-IMP..HISTORY MATH	209	4	0.37
PYMHISID	D-IMP..HISTORY MATH	209	4	0.21
PYMHISLA	A-LIKE..HISTORY MATH	209	4	0.23
PYMHISLD	D-LIKE..HISTORY MATH	209	4	0.23

Class level Achievement

JAPAN -- POPULATION A
BEGINNING-OF-YEAR COGNITIVE TEST -- CLASS LEVEL SCORES

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS002	211	2	0.58	0.11
PXS003	211	2	0.84	0.09
PXS006	211	2	0.36	0.09
PXS007	211	2	0.70	0.11
PXS008	211	2	0.34	0.10
PXS009	211	2	0.46	0.14
PXS010	211	2	0.57	0.23
PXS013	211	2	0.57	0.12
PXS014	211	2	0.36	0.14
PXS015	211	2	0.12	0.07
PXS016	211	2	0.31	0.10
PXS017	211	2	0.51	0.12
PXS018	211	2	0.33	0.10
PXS019	211	2	0.42	0.12
PXS022	211	2	0.77	0.09
PXS023	211	2	0.66	0.11
PXS026	211	2	0.63	0.11
PXS028	211	2	0.26	0.09
PXS029	211	2	0.14	0.07
PXS031	211	2	0.71	0.09
PXS038	211	2	0.65	0.10
PXS040	211	2	0.76	0.10
PXS044	211	2	0.69	0.10
PXS046	211	2	0.50	0.14
PXS047	211	2	0.42	0.11
PXS053	211	2	0.23	0.10
PXS055	211	2	0.20	0.08
PXS059	211	2	0.38	0.12
PXS061	211	2	0.43	0.11
PXS069	211	2	0.82	0.08
PXS007	211	2	0.70	0.11
PXS071	211	2	0.67	0.11
PXS072	211	2	0.57	0.12
PXS074	211	2	0.33	0.10
PXS075	211	2	0.75	0.10
PXS078	211	2	0.34	0.11
PXS079	211	2	0.62	0.11
PXS080	211	2	0.72	0.20
PXS082	211	2	0.41	0.11
PXS086	211	2	0.28	0.12
PXS099	211	2	0.61	0.11
PXS108	211	2	0.52	0.11
PXS110	211	2	0.58	0.12
PXS113	211	2	0.18	0.14
PXS120	211	2	0.37	0.16
PXS124	211	2	0.39	0.11
PXS129	211	2	0.36	0.09
PXS137	211	2	0.27	0.16
PXS139	211	2	0.16	0.10
PXS142	211	2	0.49	0.12
PXS143	211	2	0.66	0.10
PXS153	211	2	0.59	0.11
PXS155	211	2	0.64	0.10
PXS159	211	2	0.80	0.08
PXS160	211	2	0.80	0.08
PXS161	211	2	0.58	0.11
PXS162	211	2	0.77	0.11
PXS167	211	2	0.66	0.11
PXS168	211	2	0.27	0.10
PXS174	211	2	0.61	0.10

JAPAN -- POPULATION A
END-OF-YEAR COGNITIVE TEST -- CLASS LEVEL SCORES

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS001	211	2	0.83	0.07
PYS002	211	2	0.62	0.10
PYS003	211	2	0.89	0.07
PYS004	211	2	0.82	0.08
PYS005	211	2	0.62	0.09
PYS006	211	2	0.46	0.10
PYS007	211	2	0.72	0.10
PYS008	211	2	0.31	0.08
PYS009	211	2	0.47	0.13
PYS010	211	2	0.77	0.10
PYS011	211	2	0.08	0.06
PYS012	211	2	0.85	0.08
PYS013	211	2	0.61	0.12
PYS014	211	2	0.67	0.12
PYS015	211	2	0.73	0.13
PYS016	211	2	0.61	0.12
PYS017	211	2	0.81	0.08
PYS018	211	2	0.77	0.09
PYS019	211	2	0.63	0.11
PYS020	211	2	0.58	0.15
PYS021	211	2	0.52	0.09
PYS022	211	2	0.85	0.09
PYS023	211	2	0.75	0.10
PYS024	211	2	0.74	0.10
PYS025	211	2	0.49	0.12
PYS026	211	2	0.69	0.10
PYS027	211	2	0.24	0.09
PYS028	211	2	0.81	0.17
PYS029	211	2	0.34	0.13
PYS030	211	2	0.68	0.11
PYS031	211	2	0.82	0.07
PYS032	211	2	0.80	0.08
PYS033	211	2	0.90	0.07
PYS034	211	2	0.88	0.06
PYS035	211	2	0.71	0.09
PYS036	211	2	0.93	0.05
PYS037	211	2	0.48	0.12
PYS038	211	2	0.70	0.10
PYS039	211	2	0.88	0.07
PYS040	211	2	0.79	0.09
PYS041	208	2	0.82	0.13
PYS042	208	2	0.69	0.18
PYS043	208	2	0.58	0.19
PYS044	208	2	0.72	0.17
PYS045	208	2	0.37	0.18
PYS046	208	2	0.62	0.17
PYS047	208	2	0.51	0.20
PYS048	208	2	0.59	0.18
PYS049	208	2	0.78	0.14
PYS050	208	2	0.80	0.12
PYS051	208	2	0.42	0.18
PYS052	208	2	0.69	0.15
PYS053	208	2	0.62	0.18
PYS054	208	2	0.73	0.16
PYS055	208	2	0.49	0.19
PYS056	208	2	0.58	0.21
PYS057	208	2	0.78	0.14
PYS058	208	2	0.57	0.18
PYS059	208	2	0.51	0.20
PYS060	208	2	0.73	0.16
PYS061	208	2	0.60	0.18
PYS062	208	2	0.59	0.19
PYS063	208	2	0.58	0.18
PYS064	208	2	0.74	0.16
PYS065	208	2	0.74	0.14
PYS066	208	2	0.84	0.13
PYS067	208	2	0.81	0.13
PYS068	208	2	0.90	0.11
PYS069	208	2	0.87	0.12
PYS070	208	2	0.66	0.17
PYS071	208	2	0.74	0.16
PYS072	208	2	0.62	0.18
PYS073	208	2	0.90	0.11
PYS074	208	2	0.42	0.18
PYS075	208	2	0.76	0.16
PYS076	208	2	0.33	0.15
PYS077	208	2	0.76	0.15
PYS078	208	2	0.38	0.18
PYS079	208	2	0.60	0.17
PYS080	208	2	0.75	0.17
PYS081	208	2	0.09	0.10
PYS082	208	2	0.54	0.19
PYS083	208	2	0.50	0.18
PYS084	208	2	0.40	0.18
PYS085	208	2	0.70	0.16
PYS086	208	2	0.51	0.19
PYS087	208	2	0.35	0.16
PYS088	208	2	0.68	0.18
PYS089	208	2	0.83	0.13
PYS090	208	2	0.66	0.18
PYS091	208	2	0.92	0.10
PYS092	208	2	0.68	0.18
PYS093	208	2	0.22	0.16
PYS094	208	2	0.66	0.21
PYS095	208	2	0.87	0.12
PYS096	208	2	0.62	0.19
PYS097	208	2	0.34	0.17
PYS098	208	2	0.78	0.17
PYS099	208	2	0.67	0.17
PYS100	208	2	0.48	0.17
PYS101	208	2	0.91	0.10
PYS102	208	2	0.76	0.15
PYS103	208	2	0.87	0.11
PYS104	208	2	0.67	0.17
PYS105	208	2	0.49	0.19
PYS106	208	2	0.77	0.16
PYS107	208	2	0.83	0.15
PYS108	208	2	0.59	0.18
PYS109	208	2	0.89	0.11
PYS110	208	2	0.60	0.18
PYS111	208	2	0.72	0.17
PYS112	208	2	0.63	0.17
PYS113	208	2	0.71	0.19
PYS114	208	2	0.54	0.18
PYS115	208	2	0.63	0.18
PYS116	208	2	0.46	0.19
PYS117	208	2	0.44	0.14
PYS118	208	2	0.46	0.18
PYS119	208	2	0.72	0.15

JAPAN -- POPULATION A
END-OF-YEAR COGNITIVE TEST -- CLASS LEVEL SCORES

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VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS120	208	5	0.37	0.19
PYS121	208	5	0.62	0.21
PYS122	208	5	0.87	0.13
PYS123	208	5	0.45	0.17
PYS124	208	5	0.53	0.18
PYS125	208	5	0.26	0.16
PYS126	208	5	0.67	0.19
PYS127	208	5	0.50	0.19
PYS128	208	5	0.64	0.18
PYS129	208	5	0.41	0.17
PYS130	208	5	0.79	0.13
PYS131	208	5	0.51	0.19
PYS132	208	5	0.86	0.11
PYS133	208	5	0.74	0.15
PYS134	208	5	0.50	0.18
PYS135	208	5	0.46	0.18
PYS136	208	5	0.33	0.17
PYS137	208	5	0.47	0.21
PYS138	208	5	0.89	0.11
PYS139	208	5	0.35	0.20
PYS140	208	5	0.68	0.17
PYS141	208	5	0.66	0.18
PYS142	208	5	0.51	0.18
PYS143	208	5	0.64	0.17
PYS144	208	5	0.72	0.18
PYS145	208	5	0.20	0.13
PYS146	208	5	0.67	0.17
PYS147	208	5	0.63	0.18
PYS148	208	5	0.58	0.19
PYS149	208	5	0.73	0.17
PYS150	208	5	0.68	0.19
PYS151	208	5	0.60	0.20
PYS152	208	5	0.85	0.11
PYS153	208	5	0.62	0.19
PYS154	208	5	0.80	0.17
PYS155	208	5	0.69	0.14
PYS156	208	5	0.62	0.17
PYS157	208	5	0.79	0.19
PYS158	208	5	0.87	0.17
PYS159	208	5	0.81	0.13
PYS160	208	5	0.64	0.14
PYS161	208	5	0.80	0.19
PYS162	208	5	0.49	0.16
PYS163	208	5	0.90	0.18
PYS164	208	5	0.68	0.10
PYS165	208	5	0.52	0.18
PYS166	208	5	0.75	0.20
PYS167	208	5	0.34	0.17
PYS168	208	5	0.28	0.18
PYS169	208	5	0.25	0.16
PYS170	208	5	0.15	0.16
PYS171	208	5	0.10	0.12
PYS172	208	5	0.12	0.11
PYS173	208	5	0.65	0.11
PYS174	208	5	0.30	0.18
PYS175	208	5	0.34	0.16
PYS176	208	5	0.34	0.17

Appropriateness and Opportunity
to learn

JAPAN -- POPULATION A
APPROPRIATENESS RATINGS

APPROPRIATENESS OF COGNITIVE ITEM

APP1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP3	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP4	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP5	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP6	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP7	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP8	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP9	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP10	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP11	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP12	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP13	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

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JAPAN -- POPULATION A
APPROPRIATENESS RATINGS

APPROPRIATENESS OF COGNITIVE ITEM

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APP65	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

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JAPAN -- POPULATION A
APPROPRIATENESS RATINGS

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APP131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APPI40	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

JAPAN -- POPULATION A
APPROPRIATENESS RATINGS

APPROPRIATENESS OF COGNITIVE ITEM

APP170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	211	100.0	211	100.0

APPROPRIATENESS OF COGNITIVE ITEM

APP176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	211	100.0	211	100.0

JAPAN -- POPULATION A
TEACHER REPORTS OF ITEM DIFFICULTY AND OTL

ESTIMATED PERCENTAGE OF CLASS CORRECT

E001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	3	0.5
6% - 40%	1	0.5	4	4.3
41% - 60%	8	3.8	9	41.9
61% - 94%	79	37.6	88	92.9
VIRTUALLY ALL	107	51.0	195	100.0
	15	7.1	210	

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	183	87.1	183	87.1
	27	12.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YE	30		30	
	183	100.0	183	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4		4	
6% - 40%	35	16.7	35	16.7
41% - 60%	80	38.3	115	55.0
61% - 94%	73	34.9	188	90.0
VIRTUALLY ALL	20	9.6	208	99.5
	1	0.5	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	194	92.4	194	92.4
	16	7.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YE	19		19	
BE TAUGHT LATER	77	39.7	77	39.7
NOT IN CURRICULU	49	25.3	126	64.9
	68	35.1	194	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		3	
6% - 40%	1	0.5	4	2.9
41% - 60%	5	2.4	6	30.5
61% - 94%	58	27.6	64	92.9
VIRTUALLY ALL	131	62.4	195	100.0
	15	7.1	210	

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	204	97.1	204	97.1
	6	2.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YE	9		9	
	204	100.0	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		3	
6% - 40%	1	0.5	4	3.3
41% - 60%	6	2.9	7	28.1
61% - 94%	52	24.8	59	91.0
VIRTUALLY ALL	132	62.9	191	100.0
	19	9.0	210	

JAPAN -- POPULATION A
TEACHER REPORTS OF ITEM DIFFICULTY AND OTL

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	204	97.1	204	97.1
REVIEWED THEN EX	6	2.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	203	99.5	203	99.5
BE TAUGHT LATER	1	0.5	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	22	10.5	23	11.0
41% - 60%	88	41.9	111	52.9
61% - 94%	95	45.2	206	98.1
VIRTUALLY ALL	4	1.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	204	97.1	204	97.1
REVIEWED THEN EX	6	2.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	200	98.0	200	98.0
BE TAUGHT LATER	4	2.0	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	2.9	4	2.9
6% - 40%	55	26.3	61	29.2
41% - 60%	98	46.9	159	76.1
61% - 94%	49	23.4	208	99.5
VIRTUALLY ALL	1	0.5	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	183	87.1	183	87.1
REVIEWED THEN EX	27	12.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	177	96.7	177	96.7
BE TAUGHT LATER	4	2.2	181	98.9
NOT IN CURRICULUM	2	1.1	183	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	13	6.2	13	6.2
6% - 40%	49	23.3	62	29.5
41% - 60%	83	39.5	145	69.0
61% - 94%	63	30.0	208	99.0
VIRTUALLY ALL	2	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	189	90.0	189	90.0
REVIEWED THEN EX	21	10.0	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	173	91.5	173	91.5
BE TAUGHT LATER	16	8.5	189	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	1.0	2	1.0
6% - 40%	53	25.2	55	26.2
41% - 60%	105	50.0	160	76.2
61% - 94%	48	22.9	208	99.0
VIRTUALLY ALL	2	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	202	96.2	202	96.2
REVIEWED THEN EX	8	3.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11	98.0	198	98.0
BE TAUGHT LATER	3	1.5	201	99.5
NOT IN CURRICULUM	1	0.5	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	61	29.0	68	32.4
41% - 60%	101	48.1	169	80.5
61% - 94%	40	19.0	209	99.5
VIRTUALLY ALL	1	0.5	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	179	85.2	179	85.2
REVIEWED THEN EX	31	14.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	34	98.9	177	98.9
BE TAUGHT LATER	2	1.1	179	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	10	4.8	11	5.2
41% - 60%	89	42.4	100	47.6
61% - 94%	102	48.6	202	96.2
VIRTUALLY ALL	8	3.8	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	3.8	3	3.8
REVIEWED THEN EX	202	96.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	205	75.0	6	75.0
BE TAUGHT LATER	2	25.0	8	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	195	93.3	195	93.3
41% - 60%	11	5.3	206	98.6
	3	1.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	208	99.0	208	99.0
	2	1.0	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	5			
NOT IN CURRICULUM	196	94.2	196	94.2
	12	5.8	208	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	1.0	2	1.0
6% - 40%	2	1.0	4	1.9
41% - 60%	10	4.8	14	6.7
61% - 94%	124	59.0	138	65.7
VIRTUALLY ALL	72	34.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	5	2.4	5	2.4
	205	97.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEAR	208			
BE TAUGHT LATER	3	60.0	3	60.0
	2	40.0	5	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	2	1.0	2	1.0
41% - 60%	13	6.2	15	7.1
61% - 94%	58	27.6	73	34.8
VIRTUALLY ALL	121	57.6	194	92.4
	16	7.6	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	14	6.7	14	6.7
	196	93.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEAR	199			
BE TAUGHT LATER	12	85.7	12	85.7
NOT IN CURRICULUM	1	7.1	13	92.9
	1	7.1	14	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	1	0.5	1	0.5
41% - 60%	13	6.2	14	6.7
61% - 94%	63	30.1	77	36.8
VIRTUALLY ALL	124	59.3	201	96.2
	8	3.8	209	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	6	2.9	6	2.9
	204	97.1	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEAR	207			
	6	100.0	6	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5			
6% - 40%	10	4.8	10	4.8
41% - 60%	26	12.5	36	17.3
61% - 94%	63	30.3	99	47.6
VIRTUALLY ALL	97	46.6	196	94.2
	12	5.8	208	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4			
REVIEWED THEN EX	42	20.1	42	20.1
	167	79.9	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEAR	171			
BE TAUGHT LATER	2	4.8	2	4.8
	40	95.2	42	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	3	1.4	3	1.4
41% - 60%	70	33.3	73	34.8
61% - 94%	109	51.9	182	86.7
	28	13.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	10	4.8	10	4.8
	200	95.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEAR	203			
BE TAUGHT LATER	4	40.0	4	40.0
	6	60.0	10	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	3	1.4	3	1.4
41% - 60%	31	14.8	34	16.2
61% - 94%	93	44.3	127	60.5
VIRTUALLY ALL	79	37.6	206	98.1
	4	1.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	23	11.0	23	11.0
	187	89.0	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	190			
BE TAUGHT LATER	12	52.2	12	52.2
	11	47.8	23	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	1	0.5	1	0.5
41% - 60%	1	0.5	2	1.0
61% - 94%	64	30.5	66	31.4
	135	64.3	201	95.7
VIRTUALLY ALL	9	4.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	2	1.0	2	1.0
	208	99.0	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	211			
	2	100.0	2	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	23	11.0	23	11.0
41% - 60%	48	22.9	71	33.8
61% - 94%	83	39.5	154	73.3
	54	25.7	208	99.0
VIRTUALLY ALL	2	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	52	24.8	52	24.8
	158	75.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	161			
BE TAUGHT LATER	8	15.4	8	15.4
NOT IN CURRICULUM	41	78.8	49	94.2
	3	5.8	52	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	22	10.5	22	10.5
41% - 60%	35	16.7	57	27.1
61% - 94%	93	44.3	150	71.4
	56	26.7	206	98.1
VIRTUALLY ALL	4	1.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	32	15.2	32	15.2
	178	84.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	181			
BE TAUGHT LATER	2	6.3	2	6.3
NOT IN CURRICULUM	10	31.3	12	37.5
	20	62.5	32	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	61	29.2	61	29.2
41% - 60%	79	37.8	140	67.0
61% - 94%	53	25.4	193	92.3
	16	7.7	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	199	94.8	199	94.8
	11	5.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	14			
BE TAUGHT LATER	30	15.1	30	15.1
NOT IN CURRICULUM	167	83.9	197	99.0
	2	1.0	199	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	8	3.8	8	3.8
41% - 60%	33	15.8	41	19.6
61% - 94%	54	25.8	95	45.5
	93	44.5	188	90.0
VIRTUALLY ALL	21	10.0	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	117	55.7	117	55.7
	93	44.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	96			
BE TAUGHT LATER	33	28.2	33	28.2
	84	71.8	117	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	7	3.3	7	3.3
41% - 60%	53	25.4	60	28.7
61% - 94%	95	45.5	155	74.2
	52	24.9	207	99.0
VIRTUALLY ALL	2	1.0	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	34	16.2	34	16.2
	176	83.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	179			
BE TAUGHT LATER	19	55.9	19	55.9
NOT IN CURRICULUM	14	41.2	33	97.1
	1	2.9	34	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	36	17.1	36	17.1
41% - 60%	66	31.4	102	48.6
61% - 94%	64	30.5	166	79.0
	40	19.0	206	98.1
VIRTUALLY ALL	4	1.9	210	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	192	91.4	192	91.4
	18	8.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	21			
BE TAUGHT LATER	59	30.7	59	30.7
NOT IN CURRICULU	130	67.7	189	98.4
	3	1.6	192	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	37	17.7	37	17.7
41% - 60%	64	30.6	101	48.3
61% - 94%	72	34.4	173	82.8
VIRTUALLY ALL	30	14.4	203	97.1
	6	2.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4			
REVIEWED THEN EX	183	87.6	183	87.6
	26	12.4	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	30			
BE TAUGHT LATER	37	20.2	37	20.2
NOT IN CURRICULU	143	78.1	180	98.4
	3	1.6	183	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	30	14.4	30	14.4
41% - 60%	67	32.1	97	46.4
61% - 94%	84	40.2	181	86.6
	28	13.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	205	97.6	205	97.6
	5	2.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	8			
BE TAUGHT LATER	100	48.8	100	48.8
NOT IN CURRICULU	104	50.7	204	99.5
	1	0.5	205	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	163	77.6	163	77.6
41% - 60%	30	14.3	193	91.9
61% - 94%	14	6.7	207	98.6
	3	1.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	208	99.0	208	99.0
	2	1.0	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	5			
BE TAUGHT LATER	2	1.0	2	1.0
NOT IN CURRICULU	197	94.7	199	95.7
	9	4.3	208	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	10	4.8	10	4.8
41% - 60%	9	4.3	19	9.0
61% - 94%	22	10.5	41	19.5
VIRTUALLY ALL	134	63.8	175	83.3
	35	16.7	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	11	5.2	11	5.2
	199	94.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	202			
BE TAUGHT LATER	1	9.1	1	9.1
	10	90.9	11	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	32	15.3	32	15.3
41% - 60%	67	32.1	99	47.4
61% - 94%	81	38.8	180	86.1
	29	13.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4			
REVIEWED THEN EX	36	17.2	36	17.2
	173	82.8	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	177			
BE TAUGHT LATER	2	5.6	2	5.6
NOT IN CURRICULU	33	91.7	35	97.2
	1	2.8	36	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	28	13.3	28	13.3
41% - 60%	44	21.0	72	34.3
61% - 94%	75	35.7	147	70.0
VIRTUALLY ALL	56	26.7	203	96.7
	7	3.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4			
REVIEWED THEN EX	155	74.2	155	74.2
	54	25.8	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	58			
BE TAUGHT LATER	70	45.2	70	45.2
NOT IN CURRICULU	77	49.7	147	94.8
	8	5.2	155	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	45	21.4	48	22.9
41% - 60%	98	46.7	146	69.5
61% - 94%	59	28.1	205	97.6
VIRTUALLY ALL	5	2.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	9	4.4	9	4.4
REVIEWED THEN EX	112	53.6	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	116			
BE TAUGHT LATER	83	85.6	83	85.6
NOT IN CURRICULU	13	13.4	96	99.0
	1	1.0	97	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	22	10.5	29	13.8
41% - 60%	41	19.5	70	33.3
61% - 94%	100	47.6	170	81.0
VIRTUALLY ALL	40	19.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	205	97.6	205	97.6
REVIEWED THEN EX	5	2.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	188	91.7	188	91.7
BE TAUGHT LATER	13	6.3	201	98.0
NOT IN CURRICULU	4	2.0	205	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	3	0.5
6% - 40%	12	5.7	13	6.2
41% - 60%	37	17.6	50	23.8
61% - 94%	123	58.6	173	82.4
VIRTUALLY ALL	37	17.6	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	202	96.2	202	96.2
REVIEWED THEN EX	8	3.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11			
	202	100.0	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	1.0	4	1.0
6% - 40%	19	9.1	21	10.0
41% - 60%	84	40.2	105	50.2
61% - 94%	85	40.7	190	90.9
VIRTUALLY ALL	19	9.1	209	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	205	98.1	205	98.1
REVIEWED THEN EX	4	1.9	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	8			
BE TAUGHT LATER	195	95.1	195	95.1
	10	4.9	205	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	0.5	4	0.5
6% - 40%	21	10.0	22	10.5
41% - 60%	97	46.4	119	56.9
61% - 94%	86	41.1	205	98.1
VIRTUALLY ALL	4	1.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	202	96.2	202	96.2
REVIEWED THEN EX	8	3.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11			
BE TAUGHT LATER	197	97.5	197	97.5
	5	2.5	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	7	3.3	10	4.8
41% - 60%	22	10.5	32	15.2
61% - 94%	108	51.4	140	66.7
VIRTUALLY ALL	70	33.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	204	97.6	204	97.6
REVIEWED THEN EX	5	2.4	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	187	91.7	187	91.7
BE TAUGHT LATER	1	0.5	188	92.2
NOT IN CURRICULU	16	7.8	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	3	0.5
6% - 40%	18	8.6	19	9.0
41% - 60%	107	51.0	126	60.0
61% - 94%	75	35.7	201	95.7
VIRTUALLY ALL	9	4.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	190	90.5	190	90.5
REVIEWED THEN EX	20	9.5	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	23			
BE TAUGHT LATER	188	98.9	188	98.9
	2	1.1	190	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	2	1.0	2	1.0
41% - 60%	7	3.3	9	4.3
61% - 94%	52	24.8	61	29.0
VIRTUALLY ALL	129	61.4	190	90.5
	20	9.5	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	193	91.9	193	91.9
	17	8.1	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	20			
BE TAUGHT LATER	190	98.4	190	98.4
NOT IN CURRICULU	2	1.0	192	99.5
	1	0.5	193	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	1	0.5	1	0.5
41% - 60%	2	1.0	3	1.4
61% - 94%	30	14.4	33	15.8
VIRTUALLY ALL	142	67.9	175	83.7
	34	16.3	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	183	87.1	183	87.1
	27	12.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	30			
	183	100.0	183	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	1	0.5	1	0.5
41% - 60%	17	8.1	18	8.6
61% - 94%	79	37.6	97	46.2
VIRTUALLY ALL	99	47.1	196	93.3
	14	6.7	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	197	93.8	197	93.8
	13	6.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	16			
BE TAUGHT LATER	195	99.0	195	99.0
	2	1.0	197	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	2	0.9	2	0.9
41% - 60%	11	5.2	13	6.1
61% - 94%	106	50.0	119	56.1
VIRTUALLY ALL	93	43.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	203	96.2	203	96.2
	8	3.8	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	10			
BE TAUGHT LATER	200	98.5	200	98.5
NOT IN CURRICULU	1	0.5	201	99.0
	2	1.0	203	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	2	0.9	2	0.9
41% - 60%	26	12.3	28	13.2
61% - 94%	79	37.3	107	50.5
VIRTUALLY ALL	96	45.3	203	95.8
	9	4.2	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	204	96.7	204	96.7
	7	3.3	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	9			
BE TAUGHT LATER	201	98.5	201	98.5
	3	1.5	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2			
6% - 40%	2	0.9	2	0.9
41% - 60%	14	6.6	16	7.6
61% - 94%	79	37.4	95	45.0
VIRTUALLY ALL	103	48.8	198	93.8
	13	6.2	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	83	39.3	83	39.3
	128	60.7	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	130			
BE TAUGHT LATER	77	92.8	77	92.8
NOT IN CURRICULU	5	6.0	82	98.8
	1	1.2	83	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	1	0.5	1	0.5
41% - 60%	30	14.2	31	14.6
61% - 94%	94	44.3	125	59.0
VIRTUALLY ALL	79	37.3	204	96.2
	8	3.8	212	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	179	84.8	179	84.8
REVIEWED THEN EX	32	15.2	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	179	100.0	179	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	4.7	10	4.7
6% - 40%	75	35.4	85	40.1
41% - 60%	83	39.2	168	79.2
61% - 94%	42	19.8	210	99.1
VIRTUALLY ALL	2	0.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	181	85.8	181	85.8
REVIEWED THEN EX	30	14.2	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	159	87.8	159	87.8
BE TAUGHT LATER	18	9.9	177	97.8
NOT IN CURRICULU	4	2.2	181	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	2	0.9
6% - 40%	27	12.7	29	13.7
41% - 60%	96	45.3	125	59.0
61% - 94%	82	38.7	207	97.6
VIRTUALLY ALL	5	2.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	180	85.3	180	85.3
REVIEWED THEN EX	31	14.7	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	179	99.4	179	99.4
NOT IN CURRICULU	1	0.6	180	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	14	6.6	14	6.6
6% - 40%	82	38.7	96	45.3
41% - 60%	85	40.1	181	85.4
61% - 94%	28	13.2	209	98.6
VIRTUALLY ALL	3	1.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	192	91.4	192	91.4
REVIEWED THEN EX	18	8.6	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	21		21	
BE TAUGHT LATER	169	88.0	169	88.0
NOT IN CURRICULU	19	9.9	188	97.9
	4	2.1	192	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	16.5	35	16.5
6% - 40%	35	33.0	105	49.5
41% - 60%	70	32.1	173	81.6
61% - 94%	68	17.5	210	99.1
VIRTUALLY ALL	37	0.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	46.4	98	46.4
REVIEWED THEN EX	98	53.6	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	115	5.1	5	5.1
BE TAUGHT LATER	5	80.6	84	85.7
NOT IN CURRICULU	79	14.3	98	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	0.5	1	0.5
6% - 40%	1	3.3	8	3.8
41% - 60%	7	31.8	75	35.5
61% - 94%	67	60.2	202	95.7
VIRTUALLY ALL	127	4.3	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	3.3	7	3.3
REVIEWED THEN EX	7	96.7	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	206	100.0	7	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	3.3	7	3.3
6% - 40%	7	21.2	52	24.5
41% - 60%	45	38.2	133	62.7
61% - 94%	81	35.4	208	98.1
VIRTUALLY ALL	75	1.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	76.7	161	76.7
REVIEWED THEN EX	161	23.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	52	97.5	157	97.5
BE TAUGHT LATER	157	2.5	161	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	0.5	1	0.5
6% - 40%	31	14.7	32	15.2
41% - 60%	83	39.3	115	54.5
61% - 94%	87	41.2	202	95.7
VIRTUALLY ALL	9	4.3	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	22	10.4	22	10.4
	189	89.6	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	191			
NOT IN CURRICULU	21	95.5	21	95.5
	1	4.5	22	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	1.4	1	1.4
6% - 40%	27	12.7	28	14.2
41% - 60%	81	38.2	111	52.4
61% - 94%	95	44.8	206	97.2
VIRTUALLY ALL	6	2.8	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	10	4.7	10	4.7
	201	95.3	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	203			
BE TAUGHT LATER	6	60.0	6	60.0
	4	40.0	10	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	1.9	2	1.9
6% - 40%	4	13.3	6	15.2
41% - 60%	28	46.0	32	61.1
61% - 94%	97	38.4	129	99.5
VIRTUALLY ALL	1	0.5	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	13	6.2	13	6.2
	197	93.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	200			
BE TAUGHT LATER	2	15.4	2	15.4
NOT IN CURRICULU	8	61.5	10	76.9
	3	23.1	13	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	2.4	1	2.4
6% - 40%	5	21.2	6	23.6
41% - 60%	45	37.3	50	60.8
61% - 94%	79	36.8	129	97.6
VIRTUALLY ALL	5	2.4	212	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	40	19.0	40	19.0
	171	81.0	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	173			
BE TAUGHT LATER	12	30.0	12	30.0
NOT IN CURRICULU	16	40.0	28	70.0
	12	30.0	40	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	12.7	1	12.7
6% - 40%	27	50.9	28	63.7
41% - 60%	108	29.7	135	93.4
61% - 94%	63	5.7	198	99.1
VIRTUALLY ALL	12	0.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	89	42.2	89	42.2
	122	57.8	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	124			
BE TAUGHT LATER	2	2.2	2	2.2
NOT IN CURRICULU	85	95.5	87	97.8
	2	2.2	89	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	9.9	1	9.9
6% - 40%	21	22.6	22	32.5
41% - 60%	48	32.1	69	64.6
61% - 94%	68	34.0	137	98.6
VIRTUALLY ALL	7	1.6	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	42	19.9	42	19.9
	169	80.1	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEÄ	171			
BE TAUGHT LATER	7	16.7	7	16.7
NOT IN CURRICULU	11	26.2	18	42.9
	24	57.1	42	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	3.8	1	3.8
6% - 40%	8	4.7	9	8.5
41% - 60%	10	17.9	18	26.4
61% - 94%	38	60.4	56	86.8
VIRTUALLY ALL	128	13.2	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	192	91.0	192	91.0
	19	9.0	211	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	21			
BE TAUGHT LATER	178	92.7	178	92.7
NOT IN CURRICULU	12	6.3	190	99.0
	2	1.0	192	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2			
6% - 40%	28	13.3	28	13.3
41% - 60%	73	34.6	101	47.9
61% - 94%	50	23.7	151	71.6
	51	24.2	202	95.7
VIRTUALLY ALL	9	4.3	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	147	69.7	147	69.7
	64	30.3	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	66			
BE TAUGHT LATER	18	12.2	18	12.2
NOT IN CURRICULU	126	85.7	144	98.0
	3	2.0	147	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	28	13.2	28	13.2
41% - 60%	66	31.1	94	44.3
61% - 94%	71	33.5	165	77.8
	44	20.8	209	98.6
VIRTUALLY ALL	3	1.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	158	74.9	158	74.9
	53	25.1	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	55			
BE TAUGHT LATER	59	37.3	59	37.3
NOT IN CURRICULU	96	60.8	155	98.1
	3	1.9	158	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	106	50.0	106	50.0
41% - 60%	68	32.1	174	82.1
61% - 94%	25	11.8	199	93.9
	12	5.7	211	99.5
VIRTUALLY ALL	1	0.5	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	208	98.6	208	98.6
	3	1.4	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	5			
BE TAUGHT LATER	9	4.3	9	4.3
NOT IN CURRICULU	193	92.8	202	97.1
	6	2.9	208	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	33	15.6	33	15.6
41% - 60%	57	26.9	90	42.5
61% - 94%	82	38.7	172	81.1
	35	16.5	207	97.6
VIRTUALLY ALL	5	2.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	64	30.3	64	30.3
	147	69.7	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	149			
BE TAUGHT LATER	4	6.3	4	6.3
NOT IN CURRICULU	44	68.8	48	75.0
	16	25.0	64	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	14	6.6	14	6.6
41% - 60%	67	31.6	81	38.2
61% - 94%	74	34.9	155	73.1
	56	26.4	211	99.5
VIRTUALLY ALL	1	0.5	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	169	80.5	169	80.5
	41	19.5	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	44			
BE TAUGHT LATER	88	52.1	88	52.1
NOT IN CURRICULU	79	46.7	167	98.8
	2	1.2	169	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	69	32.5	69	32.5
41% - 60%	67	31.6	136	64.2
61% - 94%	56	26.4	192	90.6
	18	8.5	210	99.1
VIRTUALLY ALL	2	0.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	164	77.7	164	77.7
	47	22.3	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	49			
BE TAUGHT LATER	18	11.0	18	11.0
NOT IN CURRICULU	114	69.5	132	80.5
	32	19.5	164	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	1.9	2	1.9
6% - 40%	4	3.3	11	5.2
41% - 60%	7	15.6	44	20.9
61% - 94%	33	53.6	157	74.4
VIRTUALLY ALL	54	25.6	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	94	44.5	94	44.5
	117	55.5	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	119			
BE TAUGHT LATER	90	95.7	90	95.7
NOT IN CURRICULUM	4	4.3	94	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	9.5	2	9.5
6% - 40%	20	29.9	83	39.3
41% - 60%	63	33.2	153	72.5
61% - 94%	70	22.7	201	95.3
VIRTUALLY ALL	48	4.7	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	206	98.1	206	98.1
	4	1.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	7			
BE TAUGHT LATER	90	43.7	90	43.7
NOT IN CURRICULUM	83	40.3	173	84.0
	33	16.0	206	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	3.3	1	3.3
6% - 40%	7	16.5	42	19.8
41% - 60%	35	36.8	120	56.6
61% - 94%	78	39.6	204	96.2
VIRTUALLY ALL	84	3.8	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	109	51.7	109	51.7
	102	48.3	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	104			
BE TAUGHT LATER	94	86.2	94	86.2
NOT IN CURRICULUM	14	12.8	108	99.1
	1	0.9	109	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	1.4	1	1.4
6% - 40%	3	8.0	20	9.4
41% - 60%	17	30.2	84	39.6
61% - 94%	64	59.7	190	89.6
VIRTUALLY ALL	118	4.7	212	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	189	90.0	189	90.0
	21	10.0	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	24			
BE TAUGHT LATER	181	95.8	181	95.8
NOT IN CURRICULUM	5	2.6	186	98.4
	3	1.6	189	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	0.5	1	0.5
6% - 40%	1	2.4	6	2.8
41% - 60%	5	10.4	28	13.3
61% - 94%	22	47.4	128	60.7
VIRTUALLY ALL	100	39.3	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	200	95.2	200	95.2
	10	4.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	13			
BE TAUGHT LATER	197	98.5	197	98.5
NOT IN CURRICULUM	1	0.5	198	99.0
	2	1.0	200	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	2	0.9
6% - 40%	2	3.3	9	4.2
41% - 60%	7	16.5	44	20.8
61% - 94%	35	60.4	172	81.1
VIRTUALLY ALL	128	18.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	198	94.3	198	94.3
	12	5.7	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	15			
BE TAUGHT LATER	189	95.5	189	95.5
NOT IN CURRICULUM	3	1.5	192	97.0
	6	3.0	198	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	1.4	3	1.4
6% - 40%	3	2.8	9	4.2
41% - 60%	54	25.5	63	29.7
61% - 94%	127	59.9	190	89.6
VIRTUALLY ALL	22	10.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2			
REVIEWED THEN EX	197	93.4	197	93.4
	14	6.6	211	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER	16 192 5	97.5 2.5	192 197	97.5 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	16	7.5	17	8.0
41% - 60%	80	37.7	97	45.8
61% - 94%	101	47.6	198	93.4
VIRTUALLY ALL	14	6.6	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	2 193 18	91.5 8.5	193 211	91.5 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULUM	20 185 6 2	95.9 3.1 1.0	185 191 193	95.9 99.0 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	1.4	1	1.4
6% - 40%	3	7.1	4	8.5
41% - 60%	15	27.4	19	35.8
61% - 94%	58	60.4	76	96.2
VIRTUALLY ALL	128	3.8	204	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	2 170 41	80.6 19.4	170 211	80.6 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULUM	43 165 4 1	97.1 2.4 0.6	165 169 170	97.1 99.4 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	1	0.9
6% - 40%	3	1.4	4	2.4
41% - 60%	20	9.4	24	11.8
61% - 94%	133	62.7	157	74.5
VIRTUALLY ALL	54	25.5	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	2 205 6	97.2 2.8	205 211	97.2 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA NOT IN CURRICULUM	8 204 1	99.5 0.5	204 205	99.5 100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	38.4	2	38.4
6% - 40%	81	27.5	83	65.9
41% - 60%	58	26.1	141	91.9
61% - 94%	16	7.6	157	99.5
VIRTUALLY ALL	1	0.5	158	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	1 202 10	95.3 4.7	202 212	95.3 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULUM	11 34 30 138	16.8 14.9 68.3	34 64 202	16.8 31.7 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	14	6.6	15	7.1
41% - 60%	51	24.1	66	31.1
61% - 94%	124	58.5	190	89.6
VIRTUALLY ALL	22	10.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	1 207 5	97.6 2.4	207 212	97.6 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	6 207	100.0	207	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	0.9	2	0.9
6% - 40%	69	32.7	71	33.6
41% - 60%	94	44.5	165	78.2
61% - 94%	44	20.9	209	99.1
VIRTUALLY ALL	2	0.9	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	1 203 9	95.8 4.2	203 212	95.8 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER	10 201 2	99.0 1.0	201 203	99.0 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	1	0.9
6% - 40%	14	6.6	15	7.5
41% - 60%	56	26.4	71	34.0
61% - 94%	120	56.6	191	90.6
VIRTUALLY ALL	20	9.4	212	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	167	78.8	167	78.8
	45	21.2	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	46			
NOT IN CURRICULU	163	97.6	163	97.6
	4	2.4	167	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	2	0.9	2	0.9
41% - 60%	53	25.0	55	25.9
61% - 94%	104	49.1	159	75.0
VIRTUALLY ALL	49	23.1	208	98.1
	4	1.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	182	85.8	182	85.8
	30	14.2	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	31			
BE TAUGHT LATER	181	99.5	181	99.5
	1	0.5	182	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	4	1.9	4	1.9
41% - 60%	48	22.6	52	24.5
61% - 94%	107	50.5	159	75.0
VIRTUALLY ALL	50	23.6	209	98.6
	3	1.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	202	95.3	202	95.3
	10	4.7	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11			
BE TAUGHT LATER	197	97.5	197	97.5
NOT IN CURRICULU	4	2.0	201	99.5
	1	0.5	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	4	1.9	4	1.9
41% - 60%	9	4.2	13	6.1
61% - 94%	60	28.3	73	34.4
VIRTUALLY ALL	119	56.1	192	90.6
	20	9.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	5	2.4	5	2.4
	207	97.6	212	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	208			
BE TAUGHT LATER	3	60.0	3	60.0
	2	40.0	5	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	192	91.4	192	91.4
41% - 60%	14	6.7	206	98.1
	4	1.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	209	99.5	209	99.5
	1	0.5	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	4			
NOT IN CURRICULU	189	90.4	189	90.4
	20	9.6	209	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	4	1.9	4	1.9
41% - 60%	26	12.3	30	14.2
61% - 94%	75	35.4	105	49.5
VIRTUALLY ALL	98	46.2	203	95.8
	9	4.2	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	15	7.1	15	7.1
	197	92.9	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	198			
BE TAUGHT LATER	5	33.3	5	33.3
NOT IN CURRICULU	7	46.7	12	80.0
	3	20.0	15	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1			
6% - 40%	20	9.4	20	9.4
41% - 60%	65	30.7	85	40.1
61% - 94%	76	35.8	161	75.9
VIRTUALLY ALL	49	23.1	210	99.1
	2	0.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1			
REVIEWED THEN EX	47	22.2	47	22.2
	165	77.8	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	166			
BE TAUGHT LATER	23	48.9	23	48.9
NOT IN CURRICULU	15	31.9	38	80.9
	9	19.1	47	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	72.5	153	72.5
6% - 40%	37	17.5	190	90.0
41% - 60%	15	7.1	205	97.2
61% - 94%	6	2.8	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1	84.9	180	84.9
REVIEWED THEN EX	32	15.1	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	33	31.1	56	31.1
NOT IN CURRICULUM	124	88.9	180	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	0.5	1	0.5
6% - 40%	17	8.1	18	8.5
41% - 60%	59	28.0	77	36.5
61% - 94%	116	55.0	193	91.5
VIRTUALLY ALL	18	8.5	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	7.6	16	7.6
REVIEWED THEN EX	195	92.4	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	197	100.0	16	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	31	14.6	32	15.1
41% - 60%	78	36.8	110	51.9
61% - 94%	95	44.8	205	96.7
VIRTUALLY ALL	7	3.3	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1	4.7	10	4.7
REVIEWED THEN EX	202	95.3	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	203	80.0	8	80.0
BE TAUGHT LATER	2	20.0	10	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	2.4	5	2.4
6% - 40%	35	16.5	40	18.9
41% - 60%	95	44.8	135	63.7
61% - 94%	69	32.5	204	96.2
VIRTUALLY ALL	8	3.8	212	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1	61.8	131	61.8
REVIEWED THEN EX	81	38.2	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	82	100.0	131	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	3.8	8	3.8
6% - 40%	67	31.6	75	35.4
41% - 60%	95	44.8	170	80.2
61% - 94%	42	19.8	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1	13.2	28	13.2
REVIEWED THEN EX	28	86.8	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	185	10.7	3	10.7
BE TAUGHT LATER	3	85.7	27	96.4
NOT IN CURRICULUM	24	3.6	28	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	2	0.9
6% - 40%	2	8.5	20	9.4
41% - 60%	18	20.8	64	30.2
61% - 94%	44	43.9	157	74.1
VIRTUALLY ALL	93	25.9	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	80.6	170	80.6
REVIEWED THEN EX	170	19.4	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	43	64.1	109	64.1
BE TAUGHT LATER	109	35.9	170	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	3.3	7	3.3
6% - 40%	7	11.4	31	14.7
41% - 60%	24	26.5	87	41.2
61% - 94%	56	49.8	192	91.0
VIRTUALLY ALL	105	9.0	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1	65.6	139	65.6
REVIEWED THEN EX	73	34.4	212	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	74	54.7	74	54.7
BE TAUGHT LATER	53	38.1	129	92.8
NOT IN CURRICULU	10	7.2	139	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	8.1	2	8.1
6% - 40%	39	18.5	56	26.5
41% - 60%	52	24.6	108	51.2
61% - 94%	75	35.5	183	86.7
VIRTUALLY ALL	28	13.3	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	185	87.3	185	87.3
REVIEWED THEN EX	27	12.7	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	28	40.5	28	40.5
BE TAUGHT LATER	75	57.3	103	97.8
NOT IN CURRICULU	4	2.2	107	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	68.2	2	68.2
6% - 40%	144	24.2	146	92.4
41% - 60%	51	5.7	197	98.1
61% - 94%	12	1.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	209	99.1	209	99.1
REVIEWED THEN EX	2	0.9	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	4	2.4	4	2.4
BE TAUGHT LATER	5	96.2	9	98.6
NOT IN CURRICULU	201	1.4	206	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	84.4	2	84.4
6% - 40%	178	12.3	180	96.7
41% - 60%	26	1.9	206	98.6
61% - 94%	4	0.9	210	99.5
VIRTUALLY ALL	1	0.5	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	209	99.1	209	99.1
REVIEWED THEN EX	2	0.9	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	198	94.7	198	94.7
NOT IN CURRICULU	11	5.3	209	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	26.5	2	26.5
6% - 40%	56	46.4	58	73.0
41% - 60%	98	21.8	154	94.8
61% - 94%	46	5.2	200	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	125	59.0	125	59.0
REVIEWED THEN EX	87	41.0	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	88	0.8	88	0.8
BE TAUGHT LATER	1	96.0	89	96.8
NOT IN CURRICULU	120	3.2	125	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	4	1.9	5	2.4
41% - 60%	41	19.3	46	21.7
61% - 94%	125	59.0	171	80.7
VIRTUALLY ALL	41	19.3	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	163	76.9	163	76.9
REVIEWED THEN EX	49	23.1	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	50	99.4	50	99.4
BE TAUGHT LATER	162	0.6	163	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	38.7	1	38.7
6% - 40%	82	30.7	83	69.3
41% - 60%	65	19.8	148	89.2
61% - 94%	42	8.5	190	97.6
VIRTUALLY ALL	18	2.4	208	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	177	83.5	177	83.5
REVIEWED THEN EX	35	16.5	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	36	7.9	36	7.9
BE TAUGHT LATER	14	56.5	50	64.4
NOT IN CURRICULU	100	35.6	150	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	9.5	2	9.5
6% - 40%	20	18.0	22	27.5
41% - 60%	38	31.3	60	58.8
61% - 94%	66	36.5	126	95.3
VIRTUALLY ALL	77	4.7	203	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	196	92.5	196	92.5
REVIEWED THEN EX	16	7.5	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	17	38.3	75	38.3
BE TAUGHT LATER	75	57.1	187	95.4
NOT IN CURRICULU	9	4.6	196	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	9.0	19	9.0
6% - 40%	19	18.0	57	27.0
41% - 60%	38	25.6	111	52.6
61% - 94%	54	36.5	188	89.1
VIRTUALLY ALL	77	10.9	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	195	92.0	195	92.0
REVIEWED THEN EX	17	8.0	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	18	38.5	75	38.5
BE TAUGHT LATER	75	60.0	192	98.5
NOT IN CURRICULU	117	1.5	195	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2	5.2	11	5.2
6% - 40%	11	28.4	71	33.6
41% - 60%	60	44.5	165	78.2
61% - 94%	94	20.4	208	98.6
VIRTUALLY ALL	43	1.4	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	197	92.9	197	92.9
REVIEWED THEN EX	15	7.1	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	16	79.2	156	79.2
BE TAUGHT LATER	156	18.3	192	97.5
NOT IN CURRICULU	36	2.5	197	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	1	16.5	36	17.0
41% - 60%	35	43.9	129	60.8
61% - 94%	93	36.8	207	97.6
VIRTUALLY ALL	78	2.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	197	92.9	197	92.9
REVIEWED THEN EX	15	7.1	212	100.0

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W100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	16	98.5	194	98.5
BE TAUGHT LATER	194	1.5	197	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	2	0.9	3	1.4
41% - 60%	21	9.9	24	11.3
61% - 94%	121	57.1	145	68.4
VIRTUALLY ALL	67	31.6	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	202	95.3	202	95.3
REVIEWED THEN EX	10	4.7	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11	99.5	201	99.5
BE TAUGHT LATER	201	0.5	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.9	2	0.9
6% - 40%	2	8.0	19	9.0
41% - 60%	17	31.1	85	40.1
61% - 94%	66	50.9	193	91.0
VIRTUALLY ALL	108	9.0	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	195	92.0	195	92.0
REVIEWED THEN EX	17	8.0	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	18	95.9	187	95.9
BE TAUGHT LATER	187	0.5	188	96.4
NOT IN CURRICULU	7	3.6	195	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	0.5	1	0.5
6% - 40%	5	2.4	6	2.8
41% - 60%	43	20.3	49	23.1
61% - 94%	141	66.5	190	89.6
VIRTUALLY ALL	22	10.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	194	91.5	194	91.5
REVIEWED THEN EX	18	8.5	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	19	99.5	193	99.5
BE TAUGHT LATER	193	0.5	194	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	2.4	3	2.4
6% - 40%	46	21.9	51	24.3
41% - 60%	91	43.3	142	67.6
61% - 94%	63	30.0	205	97.6
VIRTUALLY ALL	5	2.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	157	74.8	157	74.8
	53	25.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	56			
BE TAUGHT LATER	155	98.7	155	98.7
NOT IN CURRICULU	1	0.6	156	99.4
	1	0.6	157	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.0	3	1.0
6% - 40%	34	16.2	36	17.1
41% - 60%	111	52.9	147	70.0
61% - 94%	59	28.1	206	98.1
VIRTUALLY ALL	4	1.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	68	32.4	68	32.4
	142	67.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	145			
BE TAUGHT LATER	64	94.1	64	94.1
	4	5.9	68	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.9	3	1.9
6% - 40%	39	18.6	43	20.5
41% - 60%	106	50.5	149	71.0
61% - 94%	55	26.2	204	97.1
VIRTUALLY ALL	6	2.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4			
REVIEWED THEN EX	93	44.5	93	44.5
	116	55.5	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	120			
BE TAUGHT LATER	85	91.4	85	91.4
	8	8.6	93	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	0.5	5	0.5
6% - 40%	10	4.8	11	5.3
41% - 60%	74	35.6	85	40.9
61% - 94%	112	53.8	197	94.7
VIRTUALLY ALL	11	5.3	208	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	199	94.8	199	94.8
	11	5.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	14			
	199	100.0	199	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	2.9	3	2.9
6% - 40%	34	16.2	40	19.0
41% - 60%	97	46.2	137	65.2
61% - 94%	67	31.9	204	97.1
VIRTUALLY ALL	6	2.9	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	205	97.6	205	97.6
	5	2.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	8			
BE TAUGHT LATER	201	98.0	201	98.0
NOT IN CURRICULU	3	1.5	204	99.5
	1	0.5	205	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	3	0.5
6% - 40%	1	3.8	4	4.3
41% - 60%	41	19.5	50	23.8
61% - 94%	125	59.5	175	83.3
VIRTUALLY ALL	35	16.7	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	201	95.7	201	95.7
	9	4.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	12			
	201	100.0	201	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	2.4	3	2.4
6% - 40%	41	19.5	46	21.9
41% - 60%	106	50.5	152	72.4
61% - 94%	57	27.1	209	99.5
VIRTUALLY ALL	1	0.5	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	186	88.6	186	88.6
	24	11.4	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	27			
	186	100.0	186	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	0.5	1	0.5
6% - 40%	18	8.7	19	9.1
41% - 60%	78	37.5	97	46.6
61% - 94%	97	46.6	194	93.3
VIRTUALLY ALL	14	6.7	208	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	59	28.4	59	28.4
REVIEWED THEN EX	149	71.6	208	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	154			
BE TAUGHT LATER	57	96.6	57	96.6
	2	3.4	59	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	26	12.4	26	12.4
41% - 60%	56	26.8	82	39.2
61% - 94%	89	42.6	171	81.8
	38	18.2	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	48	23.0	48	23.0
REVIEWED THEN EX	161	77.0	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	165			
BE TAUGHT LATER	3	6.3	3	6.3
NOT IN CURRICULUM	35	72.9	38	79.2
	10	20.8	48	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	1	0.5
41% - 60%	1			
61% - 94%	38	18.1	39	18.6
	149	71.0	188	89.5
VIRTUALLY ALL	22	10.5	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	1	0.5	1	0.5
	209	99.5	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	212			
	1	100.0	1	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	104	49.8	104	49.8
41% - 60%	65	31.1	169	80.9
61% - 94%	34	16.3	203	97.1
	6	2.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	170	81.0	170	81.0
	40	19.0	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	43			
BE TAUGHT LATER	1	0.6	1	0.6
NOT IN CURRICULUM	165	97.1	166	97.6
	4	2.4	170	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	1	0.5	1	0.5
41% - 60%	5	2.4	6	2.9
61% - 94%	64	30.5	70	33.3
	125	59.5	195	92.9
VIRTUALLY ALL	15	7.1	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	3	1.4	3	1.4
	207	98.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	210			
BE TAUGHT LATER	2	66.7	2	66.7
	1	33.3	3	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3			
6% - 40%	5	2.4	5	2.4
41% - 60%	36	17.1	41	19.5
61% - 94%	86	41.0	127	60.5
	74	35.2	201	95.7
VIRTUALLY ALL	9	4.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3			
REVIEWED THEN EX	24	11.4	24	11.4
	186	88.6	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	189			
BE TAUGHT LATER	3	12.5	3	12.5
NOT IN CURRICULUM	18	75.0	21	87.5
	3	12.5	24	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4			
6% - 40%	3	1.4	3	1.4
41% - 60%	63	30.1	66	31.6
61% - 94%	104	49.8	170	81.3
	37	17.7	207	99.0
VIRTUALLY ALL	2	1.0	209	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	6	2.9	6	2.9
REVIEWED THEN EX	203	97.1	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	207		2	
BE TAUGHT LATER	2	33.3	2	33.3
NOT IN CURRICULU	3	50.0	5	83.3
	1	16.7	6	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5		61	29.3
6% - 40%	61	29.3	147	70.7
41% - 60%	86	41.3	195	93.7
61% - 94%	48	23.1	208	100.0
	13	6.3		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4		168	80.4
REVIEWED THEN EX	168	80.4	209	100.0
	41	19.6		

IF NOT TAUGHT THIS YEAR, WHY NOT?

W118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	45		1	0.6
BE TAUGHT LATER	1	0.6	166	98.8
NOT IN CURRICULU	165	98.2	168	100.0
	2	1.2		

ESTIMATED PERCENTAGE OF CLASS CORRECT

E119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		4	1.9
6% - 40%	4	1.9	21	10.0
41% - 60%	17	8.1	91	43.3
61% - 94%	70	33.3	202	96.2
VIRTUALLY ALL	111	52.9	210	100.0
	8	3.8		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		18	8.6
REVIEWED THEN EX	18	8.6	210	100.0
	192	91.4		

IF NOT TAUGHT THIS YEAR, WHY NOT?

W119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	195		2	11.1
BE TAUGHT LATER	16	8.9	18	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5		99	47.6
6% - 40%	99	47.6	172	82.7
41% - 60%	73	35.1	206	99.0
61% - 94%	34	16.3	208	100.0
	2	1.0		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		98	46.7
REVIEWED THEN EX	98	46.7	210	100.0
	112	53.3		

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	115		2	2.0
BE TAUGHT LATER	2	2.0	20	20.4
NOT IN CURRICULU	18	18.4	98	100.0
	78	79.6		

ESTIMATED PERCENTAGE OF CLASS CORRECT

E121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		13	6.2
6% - 40%	13	6.2	34	16.2
41% - 60%	21	10.0	71	33.8
61% - 94%	37	17.6	180	85.7
VIRTUALLY ALL	109	51.9	210	100.0
	30	14.3		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		44	21.0
REVIEWED THEN EX	44	21.0	210	100.0
	166	79.0		

IF NOT TAUGHT THIS YEAR, WHY NOT?

W121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	169		9	20.5
BE TAUGHT LATER	9	20.5	44	100.0
	35	79.5		

ESTIMATED PERCENTAGE OF CLASS CORRECT

E122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		4	1.9
6% - 40%	4	1.9	7	3.3
41% - 60%	3	1.4	46	21.9
61% - 94%	39	18.6	178	84.8
VIRTUALLY ALL	132	62.9	210	100.0
	32	15.2		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		176	83.8
REVIEWED THEN EX	176	83.8	210	100.0
	34	16.2		

IF NOT TAUGHT THIS YEAR, WHY NOT?

W122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	37		164	93.2
BE TAUGHT LATER	164	93.2	175	99.4
NOT IN CURRICULU	11	6.3	176	100.0
	1	0.6		

ESTIMATED PERCENTAGE OF CLASS CORRECT

E123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5		26	12.5
6% - 40%	26	12.5	78	37.5
41% - 60%	52	25.0	160	76.9
61% - 94%	82	39.4	205	98.6
VIRTUALLY ALL	45	21.6	208	100.0
	3	1.4		

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4		180	86.1
REVIEWED THEN EX	180	86.1	209	100.0
	29	13.9		

IF NOT TAUGHT THIS YEAR, WHY NOT?

W123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	33		102	56.7
BE TAUGHT LATER	102	56.7	178	98.9
NOT IN CURRICULU	76	42.2	180	100.0
	2	1.1		

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	26.3	55	26.3
6% - 40%	83	39.7	138	66.0
41% - 60%	46	22.0	184	88.0
61% - 94%	22	10.5	206	98.6
VIRTUALLY ALL	3	1.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	86.6	181	86.6
REVIEWED THEN EX	28	13.4	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	32	7.7	14	7.7
BE TAUGHT LATER	164	90.6	178	98.3
NOT IN CURRICULU	3	1.7	181	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	68.4	143	68.4
6% - 40%	52	24.9	195	93.3
41% - 60%	10	4.8	205	98.1
61% - 94%	4	1.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	98.6	207	98.6
REVIEWED THEN EX	3	1.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	6	1.9	4	1.9
BE TAUGHT LATER	201	97.1	205	99.0
NOT IN CURRICULU	2	1.0	207	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	25.8	54	25.8
6% - 40%	51	24.4	105	50.2
41% - 60%	54	25.8	159	76.1
61% - 94%	48	23.0	207	99.0
VIRTUALLY ALL	2	1.0	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	42.9	90	42.9
REVIEWED THEN EX	120	57.1	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	123	3.3	3	3.3
BE TAUGHT LATER	85	94.4	88	97.8
NOT IN CURRICULU	2	2.2	90	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	22.5	47	22.5
6% - 40%	47	40.2	131	62.7
41% - 60%	55	26.3	186	89.0
61% - 94%	20	1.4	206	99.0
VIRTUALLY ALL	3	1.4	209	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	84.3	177	84.3
REVIEWED THEN EX	33	15.7	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	36	7.3	13	7.3
BE TAUGHT LATER	161	91.0	174	98.3
NOT IN CURRICULU	3	1.7	177	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	5.3	11	5.3
6% - 40%	11	14.8	21	20.1
41% - 60%	75	35.9	117	56.0
61% - 94%	85	40.7	202	96.7
VIRTUALLY ALL	7	3.3	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	54.3	114	54.3
REVIEWED THEN EX	96	45.7	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	99	37.7	43	37.7
BE TAUGHT LATER	43	61.4	113	99.1
NOT IN CURRICULU	70	0.9	114	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	8.1	17	8.1
6% - 40%	17	43.3	91	51.4
41% - 60%	91	37.1	178	88.6
61% - 94%	78	11.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	76.2	160	76.2
REVIEWED THEN EX	160	23.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	53	95.0	152	95.0
BE TAUGHT LATER	152	3.1	157	98.1
NOT IN CURRICULU	5	1.9	160	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	3	7.6	19	9.0
41% - 60%	16	28.6	79	37.6
61% - 94%	60	53.8	192	91.4
VIRTUALLY ALL	113	8.6	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	98.1	206	98.1
REVIEWED THEN EX	206	1.9	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	7	97.1	200	97.1
BE TAUGHT LATER	6	2.9	206	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	12.9	27	12.9
6% - 40%	27	28.7	87	41.6
41% - 60%	60	29.2	148	70.8
61% - 94%	57	27.3	205	98.1
VIRTUALLY ALL	4	1.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	91.9	193	91.9
REVIEWED THEN EX	17	8.1	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	20	31.6	61	31.6
BE TAUGHT LATER	128	66.3	189	97.9
NOT IN CURRICULUM	4	2.1	193	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	1.9	4	1.9
6% - 40%	27	12.9	31	14.8
41% - 60%	53	25.4	84	40.2
61% - 94%	102	48.8	186	89.0
VIRTUALLY ALL	23	11.0	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	94.3	198	94.3
REVIEWED THEN EX	12	5.7	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	15	92.4	183	92.4
BE TAUGHT LATER	15	7.6	198	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	1	0.5
6% - 40%	16	7.6	17	8.1
41% - 60%	84	40.0	101	48.1
61% - 94%	100	47.6	201	95.7
VIRTUALLY ALL	9	4.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	97.6	205	97.6
REVIEWED THEN EX	5	2.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	8	100.0	205	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	4.3	9	4.3
6% - 40%	50	23.9	59	28.2
41% - 60%	104	49.8	163	78.0
61% - 94%	43	20.6	206	98.6
VIRTUALLY ALL	3	1.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	97.1	203	97.1
REVIEWED THEN EX	6	2.9	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	10	83.3	169	83.3
BE TAUGHT LATER	12	5.9	181	89.2
NOT IN CURRICULUM	22	10.8	203	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	16.3	34	16.3
6% - 40%	73	35.1	107	51.4
41% - 60%	72	34.6	179	86.1
61% - 94%	27	13.0	206	99.0
VIRTUALLY ALL	2	1.0	208	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5	73.6	153	73.6
REVIEWED THEN EX	55	26.4	208	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	60	61.4	94	61.4
BE TAUGHT LATER	94	28.1	137	89.5
NOT IN CURRICULUM	16	10.5	153	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	40	19.0	43	20.5
41% - 60%	95	45.2	138	65.7
61% - 94%	64	30.5	202	96.2
VIRTUALLY ALL	8	3.8	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	95.2	200	95.2
REVIEWED THEN EX	10	4.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	13	99.5	199	99.5
BE TAUGHT LATER	1	0.5	200	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	14.8	31	14.8
6% - 40%	31	29.5	93	44.3
41% - 60%	81	38.6	174	82.9
61% - 94%	35	16.7	209	99.5
VIRTUALLY ALL	1	0.5	210	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	97	46.4	97	46.4
REVIEWED THEN EX	112	53.6	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	116	9.3	9	9.3
BE TAUGHT LATER	32	33.0	41	42.3
NOT IN CURRICULU	56	57.7	97	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	20.5	43	20.5
6% - 40%	43	9.5	63	30.0
41% - 60%	20	19.0	103	49.0
61% - 94%	40	43.8	195	92.9
VIRTUALLY ALL	92	7.1	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	97.1	204	97.1
REVIEWED THEN EX	6	2.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	9	73.5	150	73.5
BE TAUGHT LATER	150	22.5	196	96.1
NOT IN CURRICULU	46	3.9	204	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	6	40.1	83	40.1
6% - 40%	83	41.5	169	81.6
41% - 60%	86	14.5	199	96.1
61% - 94%	30	3.9	207	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	80.9	169	80.9
REVIEWED THEN EX	169	19.1	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	44	20.7	35	20.7
BE TAUGHT LATER	35	24.3	76	45.0
NOT IN CURRICULU	41	55.0	169	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	1	0.5
6% - 40%	1	3.5	8	3.8
41% - 60%	64	30.5	72	34.3
61% - 94%	121	57.6	193	91.9
VIRTUALLY ALL	17	8.1	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	98.1	206	98.1
REVIEWED THEN EX	4	1.9	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	7	100.0	206	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	2.9	6	2.9
6% - 40%	6	19.5	47	22.4
41% - 60%	41	46.7	145	69.0
61% - 94%	98	27.1	202	96.2
VIRTUALLY ALL	57	3.8	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	85.6	179	85.6
REVIEWED THEN EX	30	14.4	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	34	93.9	168	93.9
BE TAUGHT LATER	168	5.0	177	98.9
NOT IN CURRICULU	9	1.1	179	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	1.9	4	1.9
6% - 40%	4	22.5	51	24.4
41% - 60%	47	40.7	136	65.1
61% - 94%	85	32.1	203	97.1
VIRTUALLY ALL	67	2.9	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	15.7	33	15.7
REVIEWED THEN EX	33	84.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	180	75.8	25	75.8
BE TAUGHT LATER	25	21.2	32	97.0
NOT IN CURRICULU	7	3.0	33	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	1	0.5
6% - 40%	1	15.7	34	16.2
41% - 60%	33	55.7	151	71.9
61% - 94%	117	27.1	208	99.0
VIRTUALLY ALL	57	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	90.5	190	90.5
REVIEWED THEN EX	190	9.5	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	23	96.3	183	96.3
BE TAUGHT LATER	183	2.1	187	98.4
NOT IN CURRICULU	4	1.6	190	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	3.8	4	3.8
6% - 40%	61	29.2	69	33.0
41% - 60%	95	45.5	164	78.5
61% - 94%	42	20.1	206	98.6
VIRTUALLY ALL	3	1.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	15.2	3	15.2
REVIEWED THEN EX	178	84.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	181	84.4	181	84.4
BE TAUGHT LATER	27	15.6	208	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	95.7	4	95.7
6% - 40%	8	3.8	208	99.5
41% - 60%	1	0.5	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	100.0	3	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	201	95.7	201	95.7
NOT IN CURRICULU	9	4.3	210	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	0.5	3	0.5
6% - 40%	18	8.6	19	9.0
41% - 60%	71	33.8	90	42.9
61% - 94%	102	48.6	192	91.4
VIRTUALLY ALL	18	8.6	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	206	98.1	206	98.1
REVIEWED THEN EX	4	1.9	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	203	98.5	203	98.5
NOT IN CURRICULU	3	1.5	206	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	1.9	4	1.9
6% - 40%	48	23.0	52	24.9
41% - 60%	92	44.0	144	68.9
61% - 94%	62	29.7	206	98.6
VIRTUALLY ALL	3	1.4	209	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	5.7	3	5.7
REVIEWED THEN EX	198	94.3	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	201	91.7	201	91.7
BE TAUGHT LATER	11	8.3	212	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	18.7	4	18.7
6% - 40%	39	36.8	43	55.5
41% - 60%	77	33.5	120	89.0
61% - 94%	21	10.0	141	99.0
VIRTUALLY ALL	2	1.0	143	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	45.2	3	45.2
REVIEWED THEN EX	115	54.8	118	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	118	5.3	118	5.3
BE TAUGHT LATER	5	85.3	123	90.5
NOT IN CURRICULU	9	9.5	132	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.9	3	1.9
6% - 40%	4	17.6	7	19.5
41% - 60%	37	49.5	44	69.0
61% - 94%	104	28.6	148	97.6
VIRTUALLY ALL	60	2.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	4.3	3	4.3
REVIEWED THEN EX	201	95.7	204	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	204	33.3	204	33.3
BE TAUGHT LATER	3	66.7	207	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	4.8	4	4.8
6% - 40%	10	23.4	14	28.2
41% - 60%	49	40.7	63	68.9
61% - 94%	85	29.7	148	98.6
VIRTUALLY ALL	62	1.4	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	17.6	3	17.6
REVIEWED THEN EX	173	82.4	176	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER	176 35	5.4 94.6	2 37	5.4 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	8	3.8	11	5.2
41% - 60%	77	36.7	88	41.9
61% - 94%	111	52.9	199	94.8
VIRTUALLY ALL	11	5.2	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	3 206	1.9 98.1	4 210	1.9 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER	209 3	25.0 75.0	1 4	25.0 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	2.9	4	2.9
6% - 40%	25	12.0	31	14.8
41% - 60%	59	28.2	90	43.1
61% - 94%	105	50.2	195	93.3
VIRTUALLY ALL	14	6.7	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	4 181	13.4 86.6	28 209	13.4 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER	185 11 17	39.3 60.7	11 28	39.3 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	6.7	4	6.7
6% - 40%	14	38.3	14	45.0
41% - 60%	80	41.6	94	86.6
61% - 94%	28	13.4	181	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	4 151	27.8 72.2	58 209	27.8 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULU	155 40 11 7	69.0 19.0 12.1	40 51 58	69.0 87.9 100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	22.5	4	22.5
6% - 40%	47	38.3	127	60.8
41% - 60%	80	33.5	197	94.3
61% - 94%	70	5.3	208	99.5
VIRTUALLY ALL	1	0.5	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	4 172	82.3 17.7	172 209	82.3 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULU	41 68 94 10	39.5 54.7 5.8	68 162 172	39.5 94.2 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	4.8	3	4.8
6% - 40%	10	26.2	13	31.0
41% - 60%	55	47.1	68	78.1
61% - 94%	99	21.4	164	99.5
VIRTUALLY ALL	45	0.5	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	3 156	25.7 74.3	54 210	25.7 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULU	159 18 34 2	33.3 63.0 7.7	18 52 54	33.3 96.3 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	40.4	5	40.4
6% - 40%	84	34.1	84	74.5
41% - 60%	71	17.3	155	91.8
61% - 94%	36	8.2	191	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO REVIEWED THEN EX	3 209	99.5 0.5	209 210	99.5 100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA BE TAUGHT LATER NOT IN CURRICULU	4 9 195 5	4.3 93.3 2.4	9 204 209	4.3 97.6 100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	10.6	5	10.6
6% - 40%	22	22.1	22	32.7
41% - 60%	46	34.1	68	66.8
61% - 94%	71	3.4	139	98.1
VIRTUALLY ALL	30	0.5	208	100.0

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TAUGHT OR REVIEWED MATERIAL THIS YEAR

T157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	158	75.2	158	75.2
REVIEWED THEN EX	52	24.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	55	34.2	54	34.2
BE TAUGHT LATER	95	60.1	149	94.3
NOT IN CURRICULU	9	5.7	158	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	40	19.1	40	19.1
6% - 40%	56	26.8	96	45.9
41% - 60%	69	33.0	165	78.9
61% - 94%	34	16.3	199	95.2
VIRTUALLY ALL	10	4.8	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	163	77.6	163	77.6
REVIEWED THEN EX	47	22.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	50	28.2	46	28.2
BE TAUGHT LATER	46	26.8	153	93.9
NOT IN CURRICULU	107	65.6	163	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	1.0	2	1.0
6% - 40%	37	17.8	39	18.7
41% - 60%	63	30.3	102	49.0
61% - 94%	91	43.8	193	92.8
VIRTUALLY ALL	15	7.2	208	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	155	74.9	155	74.9
REVIEWED THEN EX	52	25.1	207	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	58	61.3	95	61.3
BE TAUGHT LATER	38	24.5	133	85.8
NOT IN CURRICULU	22	14.2	155	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	4.8	10	4.8
6% - 40%	46	21.9	56	26.7
41% - 60%	89	42.4	145	69.0
61% - 94%	57	27.1	202	96.2
VIRTUALLY ALL	8	3.8	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	140	66.7	140	66.7
REVIEWED THEN EX	70	33.3	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	73	78.6	110	78.6
BE TAUGHT LATER	30	21.4	140	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	20	9.5	20	9.5
6% - 40%	82	39.0	102	48.6
41% - 60%	87	41.4	189	90.0
61% - 94%	19	9.0	208	99.0
VIRTUALLY ALL	2	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	137	66.2	137	66.2
REVIEWED THEN EX	70	33.8	207	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	76	75.9	104	75.9
BE TAUGHT LATER	104	23.4	136	99.3
NOT IN CURRICULU	32	0.7	137	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	3.3	7	3.3
6% - 40%	22	10.5	29	13.8
41% - 60%	79	37.6	108	51.4
61% - 94%	91	43.3	199	94.8
VIRTUALLY ALL	11	5.2	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	194	92.8	194	92.8
REVIEWED THEN EX	15	7.2	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	19	71.6	139	71.6
BE TAUGHT LATER	139	28.4	194	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4	57.9	121	57.9
6% - 40%	121	24.9	173	82.8
41% - 60%	24	11.5	197	94.3
61% - 94%	12	5.7	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	209	99.5	209	99.5
REVIEWED THEN EX	1	0.5	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	13	6.2	13	6.2
BE TAUGHT LATER	187	89.5	200	95.7
NOT IN CURRICULU	9	4.3	209	100.0

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ESTIMATED PERCENTAGE OF CLASS CORRECT

E164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.4	3	1.4
6% - 40%	5	2.4	8	3.8
41% - 60%	22	10.5	30	14.3
61% - 94%	108	51.4	138	65.7
VIRTUALLY ALL	72	34.3	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	202	96.2	202	96.2
	8	3.8	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	11		11	
BE TAUGHT LATER	197	97.5	197	97.5
NOT IN CURRICULU	2	1.0	199	98.5
	3	1.5	202	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	2.4	3	2.4
6% - 40%	5	6.2	8	8.6
41% - 60%	13	27.1	18	35.7
61% - 94%	57	51.9	75	87.6
VIRTUALLY ALL	109	12.4	184	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5		5	
REVIEWED THEN EX	180	86.5	180	86.5
	28	13.5	208	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	33		33	
BE TAUGHT LATER	160	88.9	160	88.9
NOT IN CURRICULU	17	9.4	177	98.3
	3	1.7	180	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	7	10.5	10	13.8
41% - 60%	22	50.0	29	63.8
61% - 94%	105	32.4	134	96.2
VIRTUALLY ALL	68	3.8	202	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	142	67.6	142	67.6
	68	32.4	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	71		71	
BE TAUGHT LATER	138	97.2	138	97.2
	4	2.8	142	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3	1.0	3	1.0
6% - 40%	2	21.0	5	21.9
41% - 60%	44	51.9	46	73.8
61% - 94%	109	27.6	155	97.6
VIRTUALLY ALL	5	2.4	210	100.0

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T167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5		5	
REVIEWED THEN EX	193	92.8	193	92.8
	15	7.2	208	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	20		20	
BE TAUGHT LATER	176	91.2	176	91.2
NOT IN CURRICULU	10	5.2	186	96.4
	7	3.6	193	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	5	7.7	5	7.7
6% - 40%	16	30.3	16	38.0
41% - 60%	63	45.7	79	83.7
61% - 94%	95	15.4	174	99.0
VIRTUALLY ALL	32	1.0	206	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5		5	
REVIEWED THEN EX	187	89.9	187	89.9
	21	10.1	208	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	26		26	
BE TAUGHT LATER	134	71.7	134	71.7
NOT IN CURRICULU	50	26.7	184	98.4
	3	1.6	187	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	1	6.6	1	6.6
6% - 40%	14	16.5	14	23.1
41% - 60%	35	33.0	49	56.1
61% - 94%	70	41.5	119	97.6
VIRTUALLY ALL	88	2.4	207	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	28	13.3	28	13.3
	182	86.7	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	185		185	
BE TAUGHT LATER	7	25.0	192	25.0
NOT IN CURRICULU	13	46.4	205	71.4
	8	28.6	213	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	6	93.2	6	93.2
6% - 40%	193	4.8	199	98.1
41% - 60%	10	0.5	209	98.6
61% - 94%	3	1.4	212	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	208	99.0	208	99.0
	2	1.0	210	100.0

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IF NOT TAUGHT THIS YEAR, WHY NOT?

W170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	5		1	0.5
BE TAUGHT LATER	1	0.5	2	1.0
NOT IN CURRICULU	7	3.4	8	1.5
	200	96.2	208	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2		2	
6% - 40%	189	89.6	189	89.6
41% - 60%	21	10.0	210	99.5
61% - 94%	1	0.5	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	1		1	
REVIEWED THEN EX	211	99.5	211	99.5
	1	0.5	212	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
BE TAUGHT LATER	2		2	
NOT IN CURRICULU	199	94.3	211	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4		4	
6% - 40%	166	79.4	166	79.4
41% - 60%	36	17.2	202	96.7
61% - 94%	5	2.4	207	99.0
	2	1.0	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4		4	
REVIEWED THEN EX	198	94.7	198	94.7
	11	5.3	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	15		15	
BE TAUGHT LATER	1	0.5	16	0.5
NOT IN CURRICULU	39	19.7	40	20.2
	158	79.8	198	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		3	
6% - 40%	178	84.8	178	84.8
41% - 60%	24	11.4	202	96.2
61% - 94%	5	2.4	207	98.6
	2	1.0	209	99.5
VIRTUALLY ALL	1	0.5	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2		2	
REVIEWED THEN EX	206	97.6	206	97.6
	5	2.4	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	7		7	
BE TAUGHT LATER	1	0.5	8	0.5
NOT IN CURRICULU	5	2.4	13	2.9
	200	97.1	206	100.0

JAPAN -- POPULATION A
TEACHER REPORTS OF ITEM DIFFICULTY AND OTL

ESTIMATED PERCENTAGE OF CLASS CORRECT

E174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	4		4	
6% - 40%	15	7.2	15	7.2
41% - 60%	60	28.7	75	35.9
61% - 94%	89	42.6	164	78.5
	40	19.1	204	97.6
VIRTUALLY ALL	5	2.4	209	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4		4	
REVIEWED THEN EX	175	83.7	175	83.7
	34	16.3	209	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	38		38	
BE TAUGHT LATER	79	45.1	79	45.1
NOT IN CURRICULU	79	45.1	158	90.3
	17	9.7	175	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	3		3	
6% - 40%	14	6.7	14	6.7
41% - 60%	49	23.3	63	30.0
61% - 94%	96	45.7	159	75.7
	49	23.3	208	99.0
VIRTUALLY ALL	2	1.0	210	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3		3	
REVIEWED THEN EX	29	13.8	29	13.8
	181	86.2	210	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	184		184	
BE TAUGHT LATER	4	13.8	4	13.8
NOT IN CURRICULU	23	79.3	27	93.1
	2	6.9	29	100.0

ESTIMATED PERCENTAGE OF CLASS CORRECT

E176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VIRTUALLY NONE	2		2	
6% - 40%	54	25.6	54	25.6
41% - 60%	83	39.3	137	64.9
61% - 94%	54	25.6	191	90.5
	19	9.0	210	99.5
VIRTUALLY ALL	1	0.5	211	100.0

TAUGHT OR REVIEWED MATERIAL THIS YEAR

T176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2		2	
REVIEWED THEN EX	77	36.5	77	36.5
	134	63.5	211	100.0

IF NOT TAUGHT THIS YEAR, WHY NOT?

W176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT PRIOR YEA	136		136	
BE TAUGHT LATER	7	9.1	7	9.1
NOT IN CURRICULU	50	64.9	57	74.0
	20	26.0	77	100.0

School Questionnaire

JAPAN -- POPULATION A
SCHOOL QUESTIONNAIRE

1:KIND OF COMMUNITY SERVED BY SCHOOL

SAREA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RURAL	6	23.4	6	23.4
SUBURBAN	48	25.4	54	48.8
URBAN	52	33.2	106	82.0
URBAN-SUBURBAN	3	1.5	109	83.4
CITY	28	13.7	137	97.1
UNDECIDED	6	2.9	143	100.0

JAPAN -- POPULATION A
SCHOOL QUESTIONNAIRE

VARIABLE	LABEL	MEAN
SENROLB	2:BOYS..TOTAL ENROLMENT IN SCHOOL	381.07
SENROLG	2:GIRLS..TOTAL ENROLMENT IN SCHOOL	357.13
SAPOPB	3:BOYS..POP A STUDENTS IN SCHOOL	138.01
SAPOPG	3:GIRLS..POP A STUDENTS IN SCHOOL	129.68
SNOMTHB	3:BOYS..POP A WHO DO NOT TAKE MATH	.
SNOMTHG	3:GIRLS..POP A WHO DO NOT TAKE MATH	.
STCHS	4:NUMBER OF FULL-TIME TEACHING STAFF	31.73
SSOMMM	5:MALES..TEACHING ONE OR MORE MATHS	5.39
SSOMMF	5:FEMALES..TEACHING ONE OR MORE MATHS	0.93
SALLMM	6:MALES..TEACHING MATH EXCLUSIVELY	2.68
SALLMF	6:FEMALES..TEACHING MATH EXCLUSIVELY	0.75
SSPECM	7:MALES..QUALIFIED MATH SPECIALISTS	3.09
SSPECF	7:FEMALES..QUALIFIED MATH SPECIALISTS	0.88
SDAYSVR	8:OFFICIAL SCHOOL DAYS PER YEAR	243.34
SSCHPER	9:AVERAGE NUMBER OF PERIODS PER DAY	33.37
SPERLEN	10:AVERAGE LENGTH OF EACH PERIOD	47.55

VARIABLE	STANDARD DEVIATION	N
SENROLB	208.51	211
SENROLG	193.09	211
SAPOPB	77.02	211
SAPOPG	70.09	211
STCHS	13.64	211
SSOMMM	1.63	210
SSOMMF	0.95	211
SALLMM	1.64	210
SALLMF	0.96	210
SSPECM	1.56	210
SSPECF	1.01	211
SDAYSVR	4.81	211
SSCHPER	1.05	211
SPERLEN	2.47	211

JAPAN -- POPULATION A
SCHOOL QUESTIONNAIRE

11:WHICH SUBJECTS CALCULATORS USED IN

SCALSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NONE	1			
MATH ONLY	179	85.2	179	85.2
SCIENCE	22	10.5	201	95.7
MATH AND SCIENCE	1	0.5	202	96.2
ALL SUBJECTS	6	2.9	208	99.0
	2	1.0	210	100.0

12:FREQUENCY MEETINGS MATH TEACHERS

SHEET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER	7	3.3	7	3.3
LESS ONCE A TERM	20	9.5	27	12.8
1 PER TERM	40	19.0	67	31.8
1 PER MONTH	80	37.9	147	69.7
1 EVERY 2 WEEKS	27	12.8	174	82.5
1 PER WEEK	37	17.5	211	100.0

13:ACTIVITIES AT MATH TEACHER MEETINGS

SDOWHAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ORGANIZE & ADMIN	4			
CONTENT TO TEACH	30	14.5	30	14.5
STRATEGIES	99	47.8	129	62.3
PROF DEVELOPMENT	75	36.2	204	98.6
	3	1.4	207	100.0

14:POLICY ON FOUR FUNCTION CALCULATOR

SPOLFF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SET BY TEACHER	49	23.2	49	23.2
FORBIDDEN USE	48	22.7	97	46.0
STUDENTS USE OWN	27	12.8	124	58.8
PROVIDE-RARE USE	71	33.6	195	92.4
PROVIDE-FREQ USE	3	1.4	198	93.8
QUESTN NOT ARISE	13	6.2	211	100.0

15:POLICY ON PROGRAMMED CALCULATOR

SPOLPP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SET BY TEACHER	3			
FORBIDDEN USE	48	23.1	48	23.1
STUDENTS USE OWN	48	23.1	96	46.2
PROVIDE-RARE USE	48	23.1	144	69.2
PROVIDE-FREQ USE	31	14.9	175	84.1
QUESTN NOT ARISE	1	0.5	176	84.6
	32	15.4	208	100.0

16:SETTING OR STREAMING POP A MATH

SSTREAM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ALL HOMOGENEOUS	4	1.9	4	1.9
SOME HOMOGENEOUS	207	98.1	211	100.0

17:SAME CURRICULUM FOR BOYS AND GIRLS

SBGMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ALL TOGETHER	210	99.5	210	99.5
SEPARATE	1	0.5	211	100.0

Teacher Questionnaire

JAPAN -- POPULATION A
TEACHER QUESTIONNAIRE

1:SEX OF TEACHER

TSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FEMALE	47	22.4	47	22.4
MALE	163	77.6	210	100.0

2:YOUR AGE IN YEARS

TAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
21 TO 25	16	7.6	16	7.6
26 TO 30	34	16.2	50	23.8
31 TO 35	30	14.3	80	38.1
36 TO 40	26	12.4	106	50.5
41 TO 45	30	14.3	136	64.8
46 TO 50	32	15.2	168	80.0
51 TO 55	32	15.2	200	95.2
56 TO 60	9	4.3	209	99.5
MORE THAN 60	1	0.5	210	100.0

3:YEARS OF EXPERIENCE AS A TEACHER

TEXPTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	42	20.0	42	20.0
6 TO 10	26	12.4	68	32.4
11 TO 15	36	17.1	104	49.5
16 TO 20	26	12.4	130	61.9
21 TO 25	27	12.9	157	74.8
26 TO 30	24	11.4	181	86.2
MORE THAN 30	29	13.8	210	100.0

4:YEARS TEACHING MATHEMATICS TO POP A

TEXPMTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	105	50.0	105	50.0
6 TO 10	74	35.2	179	85.2
11 TO 15	23	11.0	202	96.2
16 TO 20	4	1.9	206	98.1
21 TO 25	3	1.4	209	99.5
26 TO 30	1	0.5	210	100.0

5:SEMESTERS POSTSECONDARY MATHEMATICS

TEDMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	3	1.4	3	1.4
1 TO 5	59	28.4	62	29.8
6 TO 10	125	60.1	187	89.9
11 TO 15	15	7.2	202	97.1

6:SEMS POSTSECONDARY MATH PEDAGOGY

TEDMED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	6	2.8	6	2.8
1 TO 5	123	60.0	129	62.8
6 TO 10	55	26.8	184	89.6

7:SEMS POSTSECONDARY GENERAL PEDAGOGY

TEDGED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	1.9	4	1.9
1 TO 5	116	56.0	120	57.9
6 TO 10	72	34.8	192	92.7

8:TOTAL NUMBER OF TEACHING PERIODS

THRSTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
6 TO 10	2	1.0	2	1.0
11 TO 15	7	3.3	9	4.3
16 TO 20	61	29.0	70	33.3
21 TO 25	137	65.2	207	98.6
26 TO 30	3	1.4	210	100.0

JAPAN -- POPULATION A
TEACHER QUESTIONNAIRE

9:PERIODS PER WEEK TEACHING MATH

THRSMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	2			
6 TO 10	8	3.8	8	3.8
11 TO 15	11	5.3	19	9.1
16 TO 20	26	12.4	45	21.5
21 TO 25	146	69.9	191	91.4
	18	8.6	209	100.0

10:ALSO TEACHER OF SCIENCE

TSCITCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	29			
NO	17	9.3	17	9.3
	165	90.7	182	100.0

10:ALSO TEACHER IN OTHER AREAS

TOTHTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	27			
NO	39	21.2	39	21.2
	145	78.8	184	100.0

10:HEAD OF THE MATHEMATICS DEPARTMENT

THOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	19			
NO	74	38.5	74	38.5
	118	61.5	192	100.0

10:ALSO SCHOOL ADMINISTRATOR GENERAL

TADGEN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	30			
NO	4	2.2	4	2.2
	177	97.8	181	100.0

10:SCHOOL ADMINISTRATOR SUBJECT AREA

TADSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	10			
NO	85	42.3	85	42.3
	116	57.7	201	100.0

11:CLASSES..POPULATION A

TPOPAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	2			
2	22	10.5	22	10.5
3	35	16.7	57	27.3
4	31	14.8	88	42.1
5	45	21.5	133	63.6
6 TO 10	59	28.2	192	91.9
	17	8.1	209	100.0

11:HOURS..POPULATION A

TPOPAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	2			
6 TO 10	16	7.7	16	7.7
11 TO 15	39	18.7	55	26.3
16 TO 20	40	19.1	95	45.5
21 TO 25	92	44.0	187	89.5
	22	10.5	209	100.0

11:CLASSES..LOWER THAN POPULATION A

TLOWAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7			
1	89	43.6	89	43.6
2	38	18.6	127	62.3
3	48	23.5	175	85.8
4	20	9.8	195	95.6
5	8	3.9	203	99.5
	1	0.5	204	100.0

JAPAN -- POPULATION A
TEACHER QUESTIONNAIRE

11:HOURS..LOWER THAN POPULATION A

TLOWAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8			
1 TO 5	88	43.3	88	43.3
6 TO 10	43	21.2	131	64.5
11 TO 15	39	19.2	170	83.7
16 TO 20	23	11.3	193	95.1
	10	4.9	203	100.0

11:CLASSES..HIGHER THAN POPULATION A

THIGHAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

11:HOURS..HIGHER THAN POPULATION A

THIGHAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

12:HOW MANY SUBJECTS TO TARGET CLASS

TSBJCTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY MATH	2			
MATH & OTHR SUBJ	176	84.2	176	84.2
ALL SUBJECTS	32	15.3	208	99.5
	1	0.5	209	100.0

13:OTHER TEACHERS MATH TO TARGET CLASS

TNTCHS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	11			
1	187	93.5	187	93.5
2	7	3.5	194	97.0
	6	3.0	200	100.0

14:STUDENTS ENROLLED IN TARGET CLASS

TNSTUDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
6 TO 10	3			
11 TO 15	2	1.0	2	1.0
16 TO 20	2	1.0	4	1.9
21 TO 25	4	1.9	8	3.8
26 TO 30	1	0.5	9	4.3
31 TO 35	5	2.4	14	6.7
36 TO 40	16	7.7	30	14.4
MORE THAN 40	59	28.4	89	42.8
	119	57.2	208	100.0

15:PERIODS MATH INSTRUCTION EACH WEEK

TPPWEK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
3	2			
4	25	12.0	25	12.0
5	183	87.6	208	99.5
	1	0.5	209	100.0

16:AVERAGE LENGTH CLASS PERIOD MINUTES

TLENPER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
41 TO 45	2			
46 TO 50	105	50.2	105	50.2
	104	49.8	209	100.0

17:HOURS OF MATH BY END OF YEAR

THPYEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LESS THAN 100	9			
101 TO 120	100	49.5	100	49.5
121 TO 140	93	46.0	193	95.5
141 TO 160	6	3.0	199	98.5
	3	1.5	202	100.0

JAPAN -- POPULATION A
TEACHER QUESTIONNAIRE

18:CLASS COMPARED WITH OTHER CLASSES

TCFMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO OTHER POPA	16	7.6	16	7.6
HIGHER	57	27.1	73	34.8
SAME	130	61.9	203	96.7
LOWER	7	3.3	210	100.0

19:RANGE OF MATH ABILITIES CLASS

TRANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY WIDE	79	37.8	79	37.8
FAIRLY WIDE	116	55.5	195	93.3
FAIRLY NARROW	13	6.2	208	99.5
VERY NARROW	1	0.5	209	100.0

20:MASTERY OF PREVIOUS CURRICULUM

TMASTRY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	4	9.2	4	9.2
21 TO 40	19	9.2	19	30.9
41 TO 60	45	21.7	64	68.1
61 TO 80	77	37.2	141	99.6
81 TO 100	59	28.5	200	100.0

21:CHARACTER MAIN MATH SUBJECT MATTER

TMTHSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
REMEDIAL	35	16.7	35	16.7
TYPICAL	174	82.9	209	99.5
ENRICHED	1	0.5	210	100.0

22:STUDENTS IN NATIONAL TOP THIRD

TTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	4	5.3	4	5.3
6 TO 10	11	32.4	11	37.7
11 TO 15	67	54.6	78	92.3
16 TO 20	113	6.8	191	99.0
21 TO 25	14	1.0	205	100.0

22:STUDENTS IN NATIONAL MIDDLE THIRD

TMIDDLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	0.5	4	0.5
1 TO 5	1	2.4	5	2.9
6 TO 10	30	14.5	36	17.4
11 TO 15	95	45.9	131	63.3
16 TO 20	58	28.0	189	91.3
21 TO 25	16	7.7	205	99.0
26 TO 30	1	0.5	206	99.5
MORE THAN 30	1	0.5	207	100.0

22:NUMBER OF STUDENTS NATIONAL BOTTOM

TBOTTOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 5	4	5.8	4	5.8
6 TO 10	12	36.2	12	42.0
11 TO 15	75	51.7	87	93.7
16 TO 20	107	5.8	206	99.5
MORE THAN 30	1	0.5	207	100.0

22:NUMBER OF STUDENTS UNABLE TO JUDGE

TNOJGD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	132	63.8	132	63.8
1 TO 5	58	28.0	190	91.8
6 TO 10	12	5.8	202	97.6
11 TO 15	2	1.0	204	98.6
16 TO 30	3	1.4	207	100.0

JAPAN -- POPULATION A
TEACHER QUESTIONNAIRE

23:LAST WEEK..PREPARATION FOR MATH

TPREPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	3	7.2	3	7.2
21 TO 40	15	12.0	15	19.2
41 TO 60	25	20.7	40	39.9
61 TO 80	43	5.8	83	45.7
81 TO 100	12	11.5	95	57.2
101 TO 120	24	15.9	119	73.1
121 TO 160	33	9.1	152	82.2
161 TO 200	19	9.6	171	91.8
MORE THAN 300	20	8.2	191	100.0

23:TYPICAL WEEK..PREPARATION FOR MATH

TPREPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	3	4.8	3	4.8
21 TO 40	10	12.0	10	16.8
41 TO 60	25	21.6	35	38.5
61 TO 80	45	11.1	80	49.5
81 TO 100	23	7.7	103	57.2
101 TO 120	16	17.3	119	74.5
121 TO 160	36	10.6	155	85.1
161 TO 200	22	5.8	177	90.9
MORE THAN 300	12	9.1	189	100.0

23:LAST WEEK..GRADING STUDENT WORK

TGRADEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	4	20.3	4	20.3
21 TO 40	42	15.0	42	35.3
41 TO 60	31	18.8	73	54.1
61 TO 80	39	6.3	112	60.4
81 TO 100	13	7.2	125	67.6
101 TO 120	15	11.1	140	78.7
121 TO 160	23	4.8	163	83.6
161 TO 200	10	8.7	173	92.3
MORE THAN 300	18	7.7	191	100.0

23:TYPICAL WEEK..GRADING STUDENT WORK

TGRADEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	5	8.7	5	8.7
21 TO 40	18	24.8	18	33.5
41 TO 60	51	25.2	69	58.7
61 TO 80	52	7.3	121	66.0
81 TO 100	15	9.2	136	75.2
101 TO 120	19	10.2	155	85.4
121 TO 160	21	4.9	176	90.3
161 TO 200	10	3.9	186	94.2
MORE THAN 300	8	5.8	194	100.0

23:LAST WEEK..EXPLAINING NEW CONTENT

TEXPLNL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	3	17.8	3	17.8
21 TO 40	37	17.3	37	35.1
41 TO 60	36	15.4	73	50.5
61 TO 80	32	16.8	105	67.3
81 TO 100	35	14.9	140	82.2
101 TO 120	31	10.1	171	92.3
121 TO 160	21	6.3	192	98.6
161 TO 200	13	1.0	205	99.5
MORE THAN 300	2	0.5	207	100.0

23:TYPICAL WEEK..EXPLAINING CONTENT

TEXPLNT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 20	4	10.6	4	10.6
21 TO 40	22	14.5	22	25.1
41 TO 60	30	16.9	52	42.0
61 TO 80	35	16.4	87	58.5
81 TO 100	34	15.5	121	73.9
101 TO 120	32	14.0	153	87.9
121 TO 160	29	10.6	182	98.6
161 TO 200	22	1.4	204	100.0

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24: TYPICAL WEEK..WORKING SMALL GROUPS

TGROUPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	74	36.6	74	36.6
1 TO 20	81	40.1	155	76.7
21 TO 40	34	16.8	189	93.6
41 TO 60	10	5.0	199	98.5
61 TO 80	1	0.5	200	99.0
81 TO 100	2	1.0	202	100.0

25: STUDENTS CALLED ORAL QUESTIONS

TQUEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0% TO 25%	1			
> 25% TO 50%	44	21.0	44	21.0
> 50% TO 75%	109	51.9	153	72.9
> 75% TO 100%	40	19.0	193	91.9
	17	8.1	210	100.0

26: DIFFERENTIATE EXERCISES ASSIGNMENTS

TDIFASG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	118	56.2	118	56.2
OCCASIONALLY	81	38.6	199	94.8
RARELY OR NEVER	11	5.2	210	100.0

27: LAST WEEK..HOURS OF HOMEWORK

THWRKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	3			
1	24	11.5	24	11.5
2	79	38.0	103	49.5
3	73	35.1	176	84.6
4	19	9.1	195	93.7
5	10	4.8	205	98.6
6	2	1.0	207	99.5
12	1	0.5	208	100.0

27: TYPICAL WEEK..HOURS OF HOMEWORK

THWRKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	3			
1	7	3.4	7	3.4
2	85	40.9	92	44.2
3	90	43.3	182	87.5
4	15	7.2	197	94.7
5	9	4.3	206	99.0
6	1	0.5	207	99.5
6	1	0.5	208	100.0

28: USE FOUR FUNCTION CALCULATORS

TFFCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
OCCASIONALLY	2			
NEVER	6	2.9	6	2.9
NOT ALLOWED	181	86.6	187	89.5
	22	10.5	209	100.0

28: USE PROGRAM SCIENTIFIC CALCULATORS

TPPCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
OCCASIONALLY	2			
NEVER	1	0.5	1	0.5
NOT ALLOWED	186	89.0	187	89.5
	22	10.5	209	100.0

29: CALCULATOR CHECK ANSWER TO EXERCISE

TCCCHK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	87			
PROGRM CALC ONLY	53	42.7	53	42.7
COMPUTER ONLY	3	2.4	56	45.2
1 + 2 ONLY	2	1.6	58	46.8
1 + 3 ONLY	26	21.0	84	67.7
2 + 3 ONLY	1	0.8	85	68.5
ALL THREE-1 + 2	3	2.4	88	71.0
	36	29.0	124	100.0

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29: CALCULATORS TO DO HOMEWORK

TCCHRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	190			
COMPUTER ONLY	11	52.4	11	52.4
1 + 2 ONLY	4	19.0	15	71.4
ALL THREE-1 + 2	3	14.3	18	85.7
	3	14.3	21	100.0

29: CALCULATOR AS AID TO SOLVE PROBLEMS

TCCSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	99			
PROGRM CALC ONLY	37	33.0	37	33.0
COMPUTER ONLY	12	10.7	49	43.7
1 + 2 ONLY	4	3.6	53	47.3
ALL THREE-1 + 2	21	18.8	74	66.1
	38	33.9	112	100.0

29: CALCULATORS TO TAKE TESTS

TCCTEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	195			
PROGRM CALC ONLY	7	43.8	7	43.8
COMPUTER ONLY	1	6.3	8	50.0
1 + 2 ONLY	4	25.0	12	75.0
1 + 3 ONLY	2	12.5	14	87.5
ALL THREE-1 + 2	1	6.3	15	93.8
	1	6.3	16	100.0

29: CALCULATORS AS AID TO DO PROJECTS

TCCPROJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	45			
PROGRM CALC ONLY	35	21.1	35	21.1
COMPUTER ONLY	6	3.6	41	24.7
1 + 2 ONLY	3	1.8	44	26.5
1 + 3 ONLY	35	21.1	79	47.6
2 + 3 ONLY	2	1.2	81	48.8
ALL THREE-1 + 2	4	2.4	85	51.2
	81	48.8	166	100.0

29: CALCULATORS FOR RECREATION

TCCPLSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4 FUNC CALC ONLY	97			
PROGRM CALC ONLY	18	15.8	18	15.8
COMPUTER ONLY	7	6.1	25	21.9
1 + 2 ONLY	9	7.9	34	29.8
1 + 3 ONLY	12	10.5	46	40.4
2 + 3 ONLY	3	2.6	49	43.0
ALL THREE-1 + 2	4	3.5	53	46.5
	61	53.5	114	100.0

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23:LAST WEEK..REVIEWING

TREVUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 10	3	12.0	25	12.0
11 TO 20	42	20.2	67	32.2
21 TO 30	18	8.7	85	40.9
31 TO 40	32	15.4	117	56.2
41 TO 50	17	8.2	134	64.4
51 TO 60	18	8.7	152	73.1
61 TO 70	3	1.4	155	74.5
71 TO 80	12	5.8	167	80.3
81 TO 90	7	3.4	174	83.7
91 TO 100	12	5.8	186	89.4
MORE THAN 100	22	10.6	208	100.0

23:TYPICAL WEEK..REVIEWING

TREVUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 10	3	13.9	29	13.9
11 TO 20	38	18.3	67	32.2
21 TO 30	29	13.9	96	46.2
31 TO 40	50	24.0	146	70.2
41 TO 50	11	5.3	157	75.5
51 TO 60	20	9.6	177	85.1
61 TO 70	4	1.9	181	87.0
71 TO 80	8	3.8	189	90.9
81 TO 90	5	2.4	194	93.3
91 TO 100	6	2.9	200	96.2
MORE THAN 100	8	3.8	208	100.0

23:LAST WEEK..ROUTINE ADMINISTRATION

TADMINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 10	3	67.3	140	67.3
11 TO 20	140	22.6	187	89.9
21 TO 30	47	4.8	197	94.7
31 TO 40	10	0.5	198	95.2
41 TO 50	1	1.4	201	96.6
51 TO 60	3	1.4	204	98.1
61 TO 70	3	1.4	204	98.1
81 TO 100	4	1.9	208	100.0
MORE THAN 100	4	1.9	208	100.0

23:TYPICAL WK..ROUTINE ADMINISTRATION

TADMINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0 TO 10	6	61.5	126	61.5
11 TO 20	126	26.8	181	88.3
21 TO 30	55	3.4	188	91.7
31 TO 40	7	1.5	191	93.2
41 TO 50	3	0.5	192	93.7
51 TO 60	1	2.4	197	96.1
61 TO 70	5	0.5	198	96.6
81 TO 100	3	1.5	201	98.0
MORE THAN 100	4	2.0	205	100.0

23:LAST WEEK..MAINTAINING CLASS ORDER

TORDERL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	3	14.9	31	14.9
1 TO 5	31	26.4	86	41.3
6 TO 10	55	26.0	140	67.3
11 TO 20	47	22.6	187	89.9
21 TO 30	16	7.7	203	97.6
31 TO 50	4	1.9	207	99.5
51 TO 100	1	0.5	208	100.0

23:TYPICAL WEEK..MAINTAIN CLASS ORDER

TORDERT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	5.8	12	5.8
1 TO 5	12	29.0	72	34.8
6 TO 10	60	30.0	134	64.7
11 TO 20	62	28.0	192	92.8
21 TO 30	58	4.8	202	97.6
31 TO 50	10	2.4	207	100.0

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24:LAST WEEK..TAKING TESTS AND QUIZZES

TTESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	10	37.3	75	37.3
1 TO 20	75	19.9	115	57.2
21 TO 40	40	12.9	141	70.1
41 TO 60	26	23.4	188	93.5
61 TO 80	47	2.5	193	96.0
81 TO 100	5	3.0	199	99.0
101 TO 120	6	0.5	200	99.5
MORE THAN 120	1	0.5	201	100.0

24:TYPICAL WEEK..TESTS AND QUIZZES

TTESTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	9	10.9	22	10.9
1 TO 20	22	59.4	142	70.3
21 TO 40	120	21.8	186	92.1
41 TO 60	44	6.9	200	99.0
61 TO 80	14	0.5	201	99.5
MORE THAN 120	1	0.5	202	100.0

24:LAST WEEK..SEAT OR BLACKBOARD WORK

TSEATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7	2.0	4	2.0
1 TO 20	4	1.1	54	16.7
21 TO 40	30	24.0	83	40.7
41 TO 60	49	18.6	121	59.3
61 TO 80	38	18.1	158	77.5
81 TO 100	37	13.2	185	90.7
101 TO 120	27	4.4	194	95.1
MORE THAN 120	9	4.9	204	100.0

24:TYPICAL WEEK..SEAT BLACKBOARD WORK

TSEATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7	0.5	1	0.5
1 TO 20	1	16.7	35	17.2
21 TO 40	34	17.6	71	34.8
41 TO 60	56	26.5	125	61.3
61 TO 80	54	23.5	173	84.8
81 TO 100	48	11.3	196	96.1
101 TO 120	23	2.5	201	98.5
MORE THAN 120	5	1.5	204	100.0

24:LAST WEEK..WHOLE CLASS LECTURES

TLISTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8	2.0	4	2.0
1 TO 20	4	10.3	25	12.3
21 TO 40	21	16.3	58	28.6
41 TO 60	33	19.7	98	48.3
61 TO 80	40	23.2	145	71.4
81 TO 100	47	15.3	176	86.7
101 TO 120	31	6.9	190	93.6
MORE THAN 120	14	6.4	203	100.0

24:TYPICAL WEEK..WHOLE CLASS LECTURES

TLISTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1 TO 20	8	7.9	16	7.9
21 TO 40	16	9.9	36	17.7
41 TO 60	20	18.7	74	36.5
61 TO 80	38	30.0	135	66.5
81 TO 100	61	13.8	163	80.3
101 TO 120	27	13.3	190	93.6
MORE THAN 120	27	6.4	203	100.0

24:LAST WEEK..WORKING IN SMALL GROUPS

TGROUPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8	57.6	117	57.6
1 TO 20	117	21.7	161	79.3
21 TO 40	44	14.8	191	94.1
41 TO 60	30	3.4	198	97.5
61 TO 80	7	2.0	202	99.5
81 TO 100	4	0.5	203	100.0

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30:PERIODS..COMMON FRACTIONS

TFRACP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	27	52.7	27	52.7
1	16	8.7	113	61.4
2	21	11.4	134	72.8
3	16	8.7	150	81.5
4	11	6.0	161	87.5
5	13	7.1	174	94.6
8	3	1.6	177	96.2
10	5	2.7	182	98.9
12	2	1.1	184	100.0

30:REVIEW..COMMON FRACTIONS

TFRACR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	120	-	-	-
DO NOT DO SO	23	25.3	23	25.3
	68	74.7	91	100.0

30:PERIODS..DECIMAL FRACTIONS

TDECIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	27	-	-	-
1	99	53.8	99	53.8
2	23	12.5	122	66.3
3	23	12.5	145	78.8
4	11	6.0	156	84.8
5	14	7.1	170	91.9
6	9	4.9	179	96.8
7	1	0.5	180	97.3
8	1	0.5	181	97.8
9	1	0.5	182	98.3
10	4	2.2	186	99.5
28	1	0.5	187	100.0

30:REVIEW..DECIMAL FRACTIONS

TDECIMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	122	-	-	-
DO NOT DO SO	26	29.2	26	29.2
	63	70.8	89	100.0

30:PERIODS..RATIO AND PROPORTION

TRATIOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	30	-	-	-
1 TO 5	67	37.0	67	37.0
6 TO 10	68	37.6	135	74.6
11 TO 15	25	13.8	160	88.4
16 TO 20	11	6.1	171	94.5
21 TO 25	7	3.9	178	98.3
	3	1.7	181	100.0

30:REVIEW..RATIO AND PROPORTION

TRATIOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	91	-	-	-
DO NOT DO SO	86	71.7	86	71.7
	34	28.3	120	100.0

30:PERIODS..PERCENTAGE

TPERCP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	31	-	-	-
1 TO 5	102	56.7	102	56.7
6 TO 10	77	42.0	179	99.4
	1	0.6	180	100.0

30:REVIEW..PERCENTAGE

TPERCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	127	-	-	-
DO NOT DO SO	31	36.9	31	36.9
	53	63.1	84	100.0

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30:PERIODS..MEASUREMENT

TMESURP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	27	-	-	-
1 TO 5	84	45.7	84	45.7
6 TO 10	87	47.3	171	92.9
16 TO 20	12	6.5	183	99.5
	1	0.5	184	100.0

30:REVIEW..MEASUREMENT

TMESURR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	107	-	-	-
DO NOT DO SO	88	84.6	88	84.6
	16	15.4	104	100.0

30:PERIODS..GEOMETRY

TGEOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	16	-	-	-
1 TO 5	2	1.0	2	1.0
6 TO 10	1	0.5	3	1.5
11 TO 15	7	3.6	10	5.1
16 TO 20	23	11.8	33	16.9
21 TO 25	56	28.7	89	45.6
26 TO 30	54	27.7	143	73.3
31 TO 35	26	13.3	169	86.7
MORE THAN 35	17	8.7	186	95.4
	9	4.6	195	100.0

30:REVIEW..GEOMETRY

TGEOMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	14	-	-	-
DO NOT DO SO	180	91.4	180	91.4
	17	8.6	197	100.0

30:PERIODS..FORMULAS AND EQUATIONS

TFORMLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	16	-	-	-
1 TO 10	1	0.5	1	0.5
11 TO 20	4	2.1	5	2.6
21 TO 30	54	27.7	59	30.3
31 TO 40	79	40.5	132	70.8
41 TO 50	50	25.6	188	96.4
	7	3.6	195	100.0

30:REVIEW..FORMULAS AND EQUATIONS

TFORMLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	13	-	-	-
DO NOT DO SO	186	93.9	186	93.9
	12	6.1	198	100.0

30:PERIODS..INTEGERS

TINTEGP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	15	-	-	-
1 TO 10	1	0.5	1	0.5
11 TO 15	8	4.1	9	4.6
16 TO 20	20	10.2	29	14.8
21 TO 25	80	40.8	109	55.6
26 TO 30	63	32.1	172	87.8
MORE THAN 30	22	11.2	194	99.0
	2	1.0	196	100.0

30:REVIEW..INTEGERS

TINTEGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	14	-	-	-
DO NOT DO SO	186	94.4	186	94.4
	11	5.6	197	100.0

30:PERIODS..PROBABILITY AND STATISTICS

TPROBP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	28	-	-	-
1 TO 5	150	82.0	150	82.0
6 TO 10	22	12.0	172	94.0
16 TO 20	10	5.5	182	99.5
	1	0.5	183	100.0

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30:REVIEW..PROBABILITY AND STATISTICS

TPROBR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LEAVE,LATER REVI	170	78.0	32	78.0
DO NOT DO SO	9	22.0	41	100.0

31:PUBLISHED TEXTBOOKS

TTEXTBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	2	1.9	4	1.9
SOMETIMES	15	7.2	19	9.1
OFTEN	190	90.9	209	100.0

31:PUBLISHED WORKBOOKS PROBLEM SETS

TWORKBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	2	1.9	4	1.9
SOMETIMES	35	16.7	35	16.7
OFTEN	135	64.6	170	81.3
	39	18.7	209	100.0

31:INDIVIDUALIZED MATERIALS

TINDMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	8	1.8	166	81.8
SOMETIMES	35	17.2	201	99.0
OFTEN	2	1.0	203	100.0

31:COMMERCIALY PRODUCED VISUAL AIDS

TVISMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	7	82.4	168	82.4
SOMETIMES	168	17.2	203	99.5
OFTEN	35	0.5	204	100.0

31:COMMERCIALY PUBLISHED TESTS

TPUBTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	6	53.2	109	53.2
SOMETIMES	109	43.9	199	97.1
OFTEN	90	2.9	205	100.0

31:TEACHING MATERIALS YOU HAVE WRITTEN

TOHNMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	3	19.7	41	19.7
SOMETIMES	41	61.1	168	80.8
OFTEN	127	19.2	208	100.0

31:TESTS YOU HAVE WRITTEN

TOHNTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	2	5.3	11	5.3
SOMETIMES	11	57.4	131	62.7
OFTEN	120	37.3	209	100.0

32:MAIN TEXTBOOK WORKBOOK NATONAL LIST

TCOMTXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	5	34.5	71	34.5
2	71	5.8	83	40.3
3	19	9.2	102	49.5
4	29	14.1	131	63.6
5	6	2.9	137	66.5
6	69	33.5	206	100.0

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33:A-EASY..CHECKING AN ANSWER

TCHKEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	2	48.8	102	48.8
AGREE	107	51.2	209	100.0

33:A-IMPORTANT..CHECKING AN ANSWER

TCHKIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	1	1.9	4	1.9
AGREE	206	98.1	210	100.0

33:A-LIKE..CHECKING AN ANSWER

TCHKLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	3	50.5	105	50.5
AGREE	105	49.5	208	100.0

33:D-EASY..CHECKING AN ANSWER

TCHKED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	2	78.0	163	78.0
DISAGREE	163	22.0	209	100.0

33:D-IMPORTANT..CHECKING AN ANSWER

TCHKID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	1	100.0	210	100.0

33:D-LIKE..CHECKING AN ANSWER

TCHKLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	3	95.7	199	95.7
DISAGREE	199	4.3	208	100.0

33:EASY..CHECKING AN ANSWER

TCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	2	4.8	10	4.8
EASY	10	46.4	107	51.2
UNDECIDED	97	26.8	163	78.0
HARD	56	22.0	209	100.0

33:IMPORTANT..CHECKING AN ANSWER

TCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	1	61.4	129	61.4
IMPORTANT	129	36.7	206	98.1
UNDECIDED	77	1.9	210	100.0

33:LIKE..CHECKING AN ANSWER

TCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	3	4.8	10	4.8
LIKE	10	44.7	103	49.5
UNDECIDED	93	46.2	199	95.7
DISLIKE	96	4.3	208	100.0

34:A-EASY..MEMORIZING RULES FORMULAS

TMEMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	3	54.8	114	54.8
AGREE	114	45.2	208	100.0

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34:A-IMPORT..MEMORIZING RULES FORMULAS

TMEMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	24	11.4	24	11.4
AGREE	186	88.6	210	100.0

34:A-LIKE..MEMORIZING RULES FORMULAS

TMELA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	136	65.4	136	65.4
AGREE	72	34.6	208	100.0

34:D-EASY..MEMORIZING RULES FORMULAS

TMEDM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	152	73.1	152	73.1
DISAGREE	56	26.9	208	100.0

34:D-IMPORT..MEMORIZING RULES FORMULAS

TMEMD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	200	95.2	200	95.2
DISAGREE	10	4.8	210	100.0

34:D-LIKE..MEMORIZING RULES FORMULAS

TMELD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	174	83.7	174	83.7
DISAGREE	34	16.3	208	100.0

34:EASY..MEMORIZING RULES FORMULAS

TMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	8	3.8	8	3.8
EASY	86	41.3	94	45.2
UNDECIDED	58	27.9	152	73.1
HARD	56	26.9	208	100.0

34:IMPORT..MEMORIZING RULES FORMULAS

TMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	73	34.8	73	34.8
IMPORTANT	113	53.8	186	88.6
UNDECIDED	14	6.7	200	95.2
NOT IMPORTANT	10	4.8	210	100.0

34:LIKE..MEMORIZING RULES FORMULAS

TMELM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	5	2.4	5	2.4
LIKE	67	32.2	72	34.6
UNDECIDED	102	49.0	174	83.7
DISLIKE	34	16.3	208	100.0

35:A-EASY..SOLVING WORD PROBLEMS

TWPEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	171	81.8	171	81.8
AGREE	38	18.2	209	100.0

35:A-IMPORTANT..SOLVING WORD PROBLEMS

TWPIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	13	6.2	13	6.2
AGREE	197	93.8	210	100.0

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35:A-LIKE..SOLVING WORD PROBLEMS

TWPLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	85	40.7	85	40.7
AGREE	124	59.3	209	100.0

35:D-EASY..SOLVING WORD PROBLEMS

TWPED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	85	40.7	85	40.7
DISAGREE	124	59.3	209	100.0

35:D-IMPORTANT..SOLVING WORD PROBLEMS

TWPID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	209	99.5	209	99.5
DISAGREE	1	0.5	210	100.0

35:D-LIKE..SOLVING WORD PROBLEMS

TWPLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	192	91.9	192	91.9
DISAGREE	17	8.1	209	100.0

35:EASY..SOLVING WORD PROBLEMS

TWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	2	1.0	2	1.0
EASY	36	17.2	38	18.2
UNDECIDED	47	22.5	85	40.7
HARD	105	50.2	190	90.9
VERY HARD	19	9.1	209	100.0

35:IMPORTANT..SOLVING WORD PROBLEMS

TWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	89	42.4	89	42.4
IMPORTANT	108	51.4	197	93.8
UNDECIDED	12	5.7	209	99.5
NOT IMPORTANT	1	0.5	210	100.0

35:LIKE..SOLVING WORD PROBLEMS

TWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	25	12.0	25	12.0
LIKE	99	47.4	124	59.3
UNDECIDED	68	32.5	192	91.9
DISLIKE	17	8.1	209	100.0

36:A-EASY..ESTIMATING ANSWERS

TESTEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	165	78.9	165	78.9
AGREE	44	21.1	209	100.0

36:A-IMPORTANT..ESTIMATING ANSWERS

TESTIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	10	4.8	10	4.8
AGREE	200	95.2	210	100.0

36:A-LIKE..ESTIMATING ANSWERS

TESTLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AGREE	99	47.4	99	47.4
AGREE	110	52.6	209	100.0

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36:D-EASY..ESTIMATING ANSWERS

TESTED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	133	63.6	133	63.6
DISAGREE	76	36.4	209	100.0

36:D-IMPORTANT..ESTIMATING ANSWERS

TESTID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	210	100.0	210	100.0

36:D-LIKE..ESTIMATING ANSWERS

TESTLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT DISAGREE	203	97.1	203	97.1
DISAGREE	6	2.9	209	100.0

36:EASY..ESTIMATING ANSWERS

TESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	2	1.0	2	1.0
EASY	42	20.1	44	21.1
UNDECIDED	89	42.6	133	63.6
HARD	76	36.4	209	100.0

36:IMPORTANT..ESTIMATING ANSWERS

TESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	1	29.0	61	29.0
IMPORTANT	139	66.2	200	95.2
UNDECIDED	10	4.8	210	100.0

36:LIKE..ESTIMATING ANSWERS

TESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	2	6.2	13	6.2
LIKE	13	46.4	110	52.6
UNDECIDED	97	44.5	203	97.1
DISLIKE	6	2.9	209	100.0

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37:MATH CHANGE RAPIDLY IN NEAR FUTURE

TCHANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	1.9	4	1.9
AGREE	4	27.6	62	29.5
UNDECIDED	109	51.9	171	81.4
DISAGREE	38	18.1	209	99.5
STRONGLY DISAGRE	1	0.5	210	100.0

38:MATH GOOD FIELD FOR CREATIVE PEOPLE

TCREATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	1.0	2	1.0
AGREE	2	2.9	8	3.8
UNDECIDED	54	25.7	62	29.5
DISAGREE	123	58.6	185	89.1
STRONGLY DISAGRE	25	11.9	210	100.0

39:NO PLACE FOR ORIGINALITY IN MATH

TLTORIG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	19	9.0	19	9.0
AGREE	102	48.6	121	57.6
UNDECIDED	67	31.9	188	89.5
DISAGREE	22	10.5	210	100.0

40:NEW DISCOVERIES IN MATH BEING MADE

TNEWDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	1.0	2	1.0
AGREE	31	14.8	33	15.7
UNDECIDED	92	43.8	125	59.5
DISAGREE	75	35.7	200	95.2
STRONGLY DISAGRE	10	4.8	210	100.0

41:MATH HELPS TO THINK IN STRICT RULES

TRULES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
AGREE	13	6.2	13	6.2
UNDECIDED	74	35.2	87	41.4
DISAGREE	103	49.0	190	90.5
STRONGLY DISAGRE	20	9.5	210	100.0

42:ESTIMATING IS IMPORTANT MATH SKILL

TESTIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	1.0	2	1.0
AGREE	2	1.0	4	1.9
UNDECIDED	24	11.4	28	13.3
DISAGREE	150	71.4	178	84.8
STRONGLY DISAGRE	32	15.2	210	100.0

43:MANY WAYS TO SOLVE MATH PROBLEMS

TMNYWYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
AGREE	1	1.0	2	1.0
UNDECIDED	32	15.2	34	16.2
DISAGREE	142	67.6	176	83.8
STRONGLY DISAGRE	34	16.2	210	100.0

44:LEARNING MATH MOSTLY MEMORIZING

TMEMRZG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	66	31.4	66	31.4
AGREE	122	58.1	188	89.5
UNDECIDED	20	9.5	208	99.0
DISAGREE	2	1.0	210	100.0

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45: MATH PROBLEMS SOLVED WITHOUT RULES

TWORULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	0.5	1	0.5
AGREE	16	7.6	17	8.1
UNDECIDED	56	26.7	73	34.8
DISAGREE	121	57.6	194	92.4
STRONGLY DISAGRE	16	7.6	210	100.0

46: TRIAL AND ERROR CAN OFTEN BE USED

TTAESLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	0.5	1	0.5
AGREE	3	1.4	4	1.9
UNDECIDED	23	11.0	27	12.9
DISAGREE	144	68.6	171	81.4
STRONGLY DISAGRE	39	18.6	210	100.0

47: ALWAYS RULES SOLVING MATH PROBLEMS

TALWRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	1.4	3	1.4
AGREE	27	12.9	30	14.3
UNDECIDED	82	39.0	112	53.3
DISAGREE	87	41.4	199	94.8
STRONGLY DISAGRE	11	5.2	210	100.0

48: NO NEW MATH DISCOVERIES LATELY

TNONEW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	11.1	3	11.1
AGREE	23	46.6	23	57.7
UNDECIDED	97	33.2	120	90.9
DISAGREE	69	9.1	189	100.0

49: MATHEMATICS IS A SET OF RULES

TMTHRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	3.8	1	3.8
AGREE	8	24.8	9	28.6
UNDECIDED	52	28.6	60	57.1
DISAGREE	60	40.5	120	97.6
STRONGLY DISAGRE	85	2.4	205	100.0

50: MATH CAN BE SOLVED DIFFERENT WAYS

TDIFWAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	0.5	1	0.5
AGREE	8	3.8	9	4.3
UNDECIDED	48	22.9	57	27.1
DISAGREE	136	64.8	193	91.9
STRONGLY DISAGRE	17	8.1	210	100.0

51: MATH HELPS ONE THINK LOGICALLY

TMTHLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
AGREE	1	1.0	1	1.0
UNDECIDED	22	10.5	23	11.4
DISAGREE	128	61.0	152	72.4
STRONGLY DISAGRE	58	27.6	210	100.0

JPNA2

Classroom Process Questionnaire

GEOMETRY

1.USE OF..STUDENT TEXTBOOK

GSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	183	87.1	183	87.1
OCCASIONALLY	23	11.0	206	98.1
RARELY OR NEVER	4	1.9	210	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIALS

GSOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	43	20.5	43	20.5
OCCASIONALLY	137	65.2	180	85.7
RARELY OR NEVER	30	14.3	210	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

GSLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	16	7.8	16	7.8
OCCASIONALLY	59	28.8	75	36.6
RARELY OR NEVER	130	63.4	205	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

GSINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6	2.9	6	2.9
OCCASIONALLY	42	20.3	48	23.2
RARELY OR NEVER	159	76.8	207	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

GSFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6	2.9	6	2.9
OCCASIONALLY	43	20.6	49	23.4
RARELY OR NEVER	160	76.6	209	100.0

6.USE OF..LABORATORY MATERIALS

GSLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	36	17.3	36	17.3
OCCASIONALLY	89	42.8	125	60.1
RARELY OR NEVER	83	39.9	208	100.0

7.TOPIC..ANGLES

GTANGLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	103	49.3	103	49.3
REVIEWED THEN EX	69	33.0	172	82.3
REVIEWED ONLY	16	7.7	188	90.0
NOT TAUGHT, ASSU	4	1.9	192	91.9
NOT TAUGHT, NOT	17	8.1	209	100.0

8.TOPIC..TRANSFORMATIONS

GTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	45	21.4	45	21.4
REVIEWED THEN EX	29	13.8	74	35.2
REVIEWED ONLY	19	9.0	93	44.3
NOT TAUGHT, ASSU	4	1.9	97	46.2
NOT TAUGHT, NOT	113	53.8	210	100.0

9.TOPIC..VECTORS

GTVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5	1.5	5	1.5
REVIEWED THEN EX	4	1.9	9	3.4
REVIEWED ONLY	1	0.5	8	3.9
NOT TAUGHT, ASSU	3	1.5	11	5.3
NOT TAUGHT, NOT	195	94.7	206	100.0

10.TOPIC..THE PYTHAGOREAN THEOREM

GTPYTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	12	5.8	12	5.8
REVIEWED THEN EX	2	1.0	14	6.7
REVIEWED ONLY	1	0.5	15	7.2
NOT TAUGHT, ASSU	1	0.5	16	7.7
NOT TAUGHT, NOT	192	92.3	208	100.0

11.TOPIC..TRIANGLES AND THEIR PROPERTIES

GTRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	35	16.8	35	16.8
REVIEWED THEN EX	49	23.6	84	40.4
REVIEWED ONLY	16	7.7	100	48.1
NOT TAUGHT, ASSU	11	5.3	111	53.4
NOT TAUGHT, NOT	97	46.6	208	100.0

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12.TOPIC..POLYGONS AND THEIR PROPERTIES

GTPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	7	-	-	-
REVIEWED THEN EX	38	18.6	38	18.6
REVIEWED ONLY	39	19.1	77	37.7
NOT TAUGHT, ASSU	12	5.9	89	43.6
NOT TAUGHT, NOT	5	2.5	94	46.1
	110	53.9	204	100.0

13.TOPIC..CIRCLES AND THEIR PROPERTIES

GTCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5	-	-	-
REVIEWED THEN EX	66	32.0	66	32.0
REVIEWED ONLY	58	28.2	124	60.2
NOT TAUGHT, ASSU	6	2.9	130	63.1
NOT TAUGHT, NOT	2	1.0	132	64.1
	74	35.9	206	100.0

14.TOPIC..CONGRUENCE..GEOMETRIC FIGURES

GTCNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	-	-	-
REVIEWED THEN EX	23	11.1	23	11.1
REVIEWED ONLY	18	8.7	41	19.8
NOT TAUGHT, ASSU	5	2.4	46	22.2
NOT TAUGHT, NOT	1	0.5	47	22.7
	160	77.3	207	100.0

15.TOPIC..SIMILARITY..GEOMETRIC FIGURES

GTSIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	-	-	-
REVIEWED THEN EX	12	5.8	12	5.8
REVIEWED ONLY	6	2.9	18	8.7
NOT TAUGHT, ASSU	1	0.5	19	9.2
NOT TAUGHT, NOT	188	90.8	207	100.0

16.TOPIC..PARALLEL LINES

GTPLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	3	-	-	-
REVIEWED THEN EX	52	25.0	52	25.0
REVIEWED ONLY	58	27.9	110	52.9
NOT TAUGHT, ASSU	20	9.6	130	62.5
NOT TAUGHT, NOT	5	2.4	135	64.9
	73	35.1	208	100.0

17.TOPIC..SPATIAL RELATIONS

GTSREL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	-	-	-
REVIEWED THEN EX	119	56.9	119	56.9
REVIEWED ONLY	54	25.8	173	82.8
NOT TAUGHT, ASSU	8	3.8	181	86.6
NOT TAUGHT, NOT	28	13.4	209	100.0

18.TOPIC..GEOMETRIC SOLIDS

GTSOLID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	-	-	-
REVIEWED THEN EX	95	45.5	95	45.5
REVIEWED ONLY	76	36.4	171	81.8
NOT TAUGHT, ASSU	8	3.8	179	85.6
NOT TAUGHT, NOT	2	1.0	181	86.6
	28	13.4	209	100.0

19.TOPIC..CONSTRUCTION..RULER COMPASS

GTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	2	-	-	-
REVIEWED THEN EX	132	63.2	132	63.2
REVIEWED ONLY	47	22.5	179	85.6
NOT TAUGHT, ASSU	10	4.8	189	90.4
NOT TAUGHT, NOT	20	9.6	209	100.0

2.TOPIC..PROOFS FORMAL DEDUCTIVE DEMOS

GTPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5	-	-	-
REVIEWED THEN EX	24	11.7	24	11.7
REVIEWED ONLY	6	2.9	30	14.6
NOT TAUGHT, ASSU	1	0.5	31	15.0
NOT TAUGHT, NOT	1	0.5	32	15.5
	174	84.5	206	100.0

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21.TOPIC..TESSELLATIONS

GTTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	5	-	-	-
REVIEWED THEN EX	4	1.9	4	1.9
REVIEWED ONLY	3	1.5	7	3.4
NOT TAUGHT, ASSU	1	0.5	8	3.9
NOT TAUGHT, NOT	3	1.5	11	5.3
	195	94.7	206	100.0

22.TOPIC..COORDINATE GEOMETRY

GTCOORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	4	-	-	-
REVIEWED THEN EX	35	16.9	35	16.9
REVIEWED ONLY	6	2.9	41	19.8
NOT TAUGHT, ASSU	2	1.0	43	20.8
NOT TAUGHT, NOT	2	1.0	45	21.7
	162	78.3	207	100.0

23.APPROACH..INFORMAL EUCLIDEAN

GIAEUCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	4	-	-	-
USED	69	33.3	69	33.3
NOT USED	83	40.1	152	73.4
	55	26.6	207	100.0

24.APPROACH..FORMAL EUCLIDEAN

GIAEUCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	8	-	-	-
USED	27	13.3	27	13.3
NOT USED	76	37.4	103	50.7
	100	49.3	203	100.0

25.APPROACH..INFORMAL TRANSFORMATIONAL

GIATRNI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	5	-	-	-
USED	30	14.6	30	14.6
NOT USED	63	30.6	93	45.1
	113	54.9	206	100.0

26.APPROACH..FORMAL TRANSFORMATIONAL

GIATRNF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	8	-	-	-
USED	7	3.4	7	3.4
NOT USED	30	14.8	37	18.2
	166	81.8	203	100.0

27.APPROACH..COORDINATE

GIACORR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	6	-	-	-
USED	9	4.4	9	4.4
NOT USED	28	13.7	37	18.0
	168	82.0	205	100.0

28.APPROACH..VECTOR

GIAVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	6	-	-	-
USED	1	0.5	1	0.5
NOT USED	9	4.4	10	4.9
	195	95.1	205	100.0

29.AID USE..RULER AND COMPASS

GAIDRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1	-	-	-
OCCASIONALLY	200	95.2	200	95.2
	10	4.8	210	100.0

3.AID USE..PROTRACTOR

GAIDPRO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1	-	-	-
OCCASIONALLY	59	28.1	59	28.1
RARELY OR NEVER	94	44.8	153	72.9
	57	27.1	210	100.0

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31.AID USE..SET SQUARE DRAFTMAN TRIANGLE

GAIDSSQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	183	87.6	183	87.6
RARELY OR NEVER	21	10.0	204	97.6
	5	2.4	209	100.0

32.AID USE..GEOBOARDS

GAIDGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	6	2.9	6	2.9
RARELY OR NEVER	14	6.7	20	9.6
	189	90.4	209	100.0

33.AID USE..PAPER CUTOUTS OR PATTERNS

GAIDCUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	19	9.1	19	9.1
RARELY OR NEVER	97	46.4	116	55.5
	93	44.5	209	100.0

34.AID USE..MODELS OF SOLIDS

GAIDMOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1			
OCCASIONALLY	101	48.1	101	48.1
RARELY OR NEVER	91	43.3	192	91.4
	18	8.6	210	100.0

35.AID USE..PAPER FOLDING

GAIDFLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7	3.3	7	3.3
OCCASIONALLY	75	35.7	82	39.0
RARELY OR NEVER	128	61.0	210	100.0

36.AID USE..TRACING PAPER

GAIDTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	1	0.5	1	0.5
RARELY OR NEVER	20	9.6	21	10.0
	188	90.0	209	100.0

37.AID USE..GRAPH PAPER

GAIDGP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1			
OCCASIONALLY	78	37.1	78	37.1
RARELY OR NEVER	66	31.4	144	68.6
	66	31.4	210	100.0

38.AID USE..MIRROR OR TRANSLUCENT REFLECTOR

GAIDMIR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1			
OCCASIONALLY	1	0.5	1	0.5
RARELY OR NEVER	14	6.7	15	7.1
	195	92.9	210	100.0

39.AID USE..FILMSTRIPS AND FILMS

GAIDFLM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	3	1.4	3	1.4
RARELY OR NEVER	27	12.9	30	14.4
	179	85.6	209	100.0

4.AID USE..COMPUTER GRAPHICS

GAIDCGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	3			
OCCASIONALLY	1	0.5	1	0.5
RARELY OR NEVER	1	0.5	2	1.0
	206	99.0	208	100.0

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41.AID USE..KIT FOR CONSTRUCTING FIGURES

GAIDKIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	1			
OCCASIONALLY	48	22.9	48	22.9
RARELY OR NEVER	87	41.4	135	64.3
	75	35.7	210	100.0

42.TRANSLATE INTERP..INFORMAL

GMTRINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	5			
USED	13	6.3	13	6.3
NOT USED	68	33.0	81	39.3
	125	60.7	206	100.0

43.TRANSLATE INTERP..VECTOR MAP

GMTRVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	7			
USED	1	0.5	1	0.5
NOT USED	3	1.5	4	2.0
	200	98.0	204	100.0

44.TRANSLATE INTERP..PAIR OF POINTS MAP

GMTRPAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	8			
USED	6	3.0	6	3.0
NOT USED	12	5.9	18	8.9
	185	91.1	203	100.0

45.TRANSLATE INTERP..SYMMETRY COMPOSITION

GMTRSYM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	6			
USED	13	6.3	13	6.3
NOT USED	27	13.2	40	19.5
	165	80.5	205	100.0

46.TRANSLATE INTERP..A B AND X Y

GMTRXY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	8			
USED	4	2.0	4	2.0
NOT USED	6	3.0	10	4.9
	193	95.1	203	100.0

47.TRANSLATE INTERP..BIJECTION

GMTRBIJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	7			
USED	1	0.5	1	0.5
NOT USED	10	4.9	11	5.4
	193	94.6	204	100.0

48.VECTOR INTERP..INFORMAL

GMIVINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
USED	9			
NOT USED	6	3.0	6	3.0
	196	97.0	202	100.0

49.VECTOR INTERP..TRANSLATION AB AS A B

GMIVAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
USED	9			
NOT USED	2	1.0	2	1.0
	200	99.0	202	100.0

5.VECTOR INTERP..POINT M TRANSLATION UM

GMIVMMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
USED	9			
NOT USED	1	0.5	1	0.5
	201	99.5	202	100.0

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51. VECTOR INTERP. .EQUIV CLASS TRANSLATN

GMHVEQT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
USED	9	1.0	9	1.0
NOT USED	200	99.0	202	100.0

52. VECTOR INTERP. .ORIENT DIRECTION LNTH

GMHVDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	9	2.0	9	2.0
USED	4	3.5	11	5.4
NOT USED	191	94.6	202	100.0

53. VECTOR INTERP. .EQUIV CLASS MIDPOINTS

GMHVEQM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
USED	9	0.5	9	0.5
NOT USED	1	99.5	202	100.0

54. EMPHASIZED. .ANGLE SUM BY DISCOVERY

GMHDISE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10	12.9	10	12.9
USED	26	23.9	26	36.8
NOT USED	48	63.2	74	100.0

55. IN TEXT. .ANGLE SUM BY DISCOVERY

GMHDIST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	21	25.3	21	25.3
NOT IN TEXT	48	74.7	48	100.0

56. FUTURE. .ANGLE SUM BY DISCOVERY

GMHDISF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205	50.0	205	50.0
NEGATIVE REASON	3	50.0	6	100.0

56. HARD. .ANGLE SUM BY DISCOVERY

GMHDISH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205	83.3	205	83.3
NEGATIVE REASON	5	16.7	6	100.0

56. KNOWN. .ANGLE SUM BY DISCOVERY

GMHDISK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	177	23.5	177	23.5
NEGATIVE REASON	8	76.5	34	100.0

56. LIKED. .ANGLE SUM BY DISCOVERY

GMHDISL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208	100.0	208	100.0

56. RELATED. .ANGLE SUM BY DISCOVERY

GMHDISR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201	100.0	201	100.0

56. SYLLABUS. .ANGLE SUM BY DISCOVERY

GMHDISS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	144	6.0	144	6.0
NEGATIVE REASON	4	94.0	67	100.0

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56. UNDERSTAND. .ANGLE SUM BY DISCOVERY

GMHDISU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	190	95.2	190	95.2
NEGATIVE REASON	20	4.8	21	100.0

57. TEXT EMPHASIS. .ANGLE SUM BY DISCOVERY

GMHDISX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	187	12.5	187	12.5
NEGATIVE REASON	3	87.5	24	100.0

58. EMPHASIZED. .ANGLE SUM BY DRAWING LINE

GMHLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10	23.9	10	23.9
USED	48	9.0	66	32.8
NOT USED	18	67.2	201	100.0

59. IN TEXT. .ANGLE SUM BY DRAWING LINE

GMHLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	20	38.2	20	38.2
NOT IN TEXT	73	61.8	73	100.0

6. FUTURE. .ANGLE SUM BY DRAWING LINE

GMHLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191	100.0	191	100.0

6. HARD. .ANGLE SUM BY DRAWING LINE

GMHLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	197	92.9	197	92.9
NEGATIVE REASON	13	7.1	23	100.0

6. KNOWN. .ANGLE SUM BY DRAWING LINE

GMHLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	189	18.2	189	18.2
NEGATIVE REASON	4	81.8	22	100.0

6. LIKED. .ANGLE SUM BY DRAWING LINE

GMHLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207	100.0	207	100.0

6. RELATED. .ANGLE SUM BY DRAWING LINE

GMHLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	210	100.0	210	100.0

6. SYLLABUS. .ANGLE SUM BY DRAWING LINE

GMHLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	129	6.1	129	6.1
NEGATIVE REASON	5	93.9	82	100.0

6. UNDERSTAND. .ANGLE SUM BY DRAWING LINE

GMHLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	179	96.9	179	96.9
NEGATIVE REASON	31	3.1	32	100.0

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61.TEXT EMPHASIS..ANGLE SUM DRAWING LINE

GMHLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	174	35.1	13	35.1
NEGATIVE REASON	24	64.9	37	100.0

62.EMPHASIZED..ANGLE SUM BY CUTTING OFF

GMHCUTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10	9.0	1	9.0
USED	18	16.4	51	25.4
NOT USED	33	74.6	201	100.0

63.IN TEXT..ANGLE SUM BY CUTTING OFF

GMHCUTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	20	22.0	42	22.0
NOT IN TEXT	149	78.0	191	100.0

64.FUTURE..ANGLE SUM BY CUTTING OFF

GMHCUTF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	204	14.3	1	14.3
NEGATIVE REASON	6	85.7	7	100.0

64.HARD..ANGLE SUM BY CUTTING OFF

GMHCUTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	203	75.0	6	75.0
NEGATIVE REASON	6	25.0	8	100.0

64.KNOWN..ANGLE SUM BY CUTTING OFF

GMHCUTK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	176	14.3	5	14.3
NEGATIVE REASON	30	85.7	35	100.0

64.LIKED..ANGLE SUM BY CUTTING OFF

GMHCUTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205	100.0	6	100.0

64.RELATED..ANGLE SUM BY CUTTING OFF

GMHCUTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206	100.0	5	100.0

64.SYLLABUS..ANGLE SUM BY CUTTING OFF

GMHCUTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	139	100.0	72	100.0

64.UNDERSTAND..ANGLE SUM BY CUTTING OFF

GMHCUTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	195	68.8	11	68.8
NEGATIVE REASON	11	31.3	16	100.0

65.TEXT EMPHASIS..ANGLE SUM CUTTING OFF

GMHCUTX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	180	3.2	1	3.2
NEGATIVE REASON	1	96.8	31	100.0

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66.EMPHASIZED..ANGLE SUM BY MEASURING

GMHMSRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10	6.0	12	6.0
USED	12	10.9	34	16.9
NOT USED	22	83.1	201	100.0

67.IN TEXT..ANGLE SUM BY MEASURING

GMHMSRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	22	12.2	23	12.2
NOT IN TEXT	23	87.8	189	100.0

68.FUTURE..ANGLE SUM BY MEASURING

GMHMSRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196	6.7	1	6.7
NEGATIVE REASON	1	93.3	15	100.0

68.HARD..ANGLE SUM BY MEASURING

GMHMSRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

68.KNOWN..ANGLE SUM BY MEASURING

GMHMSRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	159	3.8	2	3.8
NEGATIVE REASON	2	96.2	52	100.0

68.LIKED..ANGLE SUM BY MEASURING

GMHMSRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208	100.0	3	100.0

68.RELATED..ANGLE SUM BY MEASURING

GMHMSRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209	100.0	2	100.0

68.SYLLABUS..ANGLE SUM BY MEASURING

GMHMSRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	135	2.6	2	2.6
NEGATIVE REASON	2	97.4	76	100.0

68.UNDERSTAND..ANGLE SUM BY MEASURING

GMHMSRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200	54.5	6	54.5
NEGATIVE REASON	6	45.5	11	100.0

69.TEXT EMPHASIS..ANGLE SUM BY MEASURING

GMHMSRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	184	7.4	2	7.4
NEGATIVE REASON	2	92.6	27	100.0

7.EMPHASIZED..ANGLE SUM BY FOLDING

GMHFLDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10	2.5	5	2.5
USED	5	8.5	22	10.9
NOT USED	17	89.1	201	100.0

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71.IN TEXT..ANGLE SUM BY FOLDING

GMHFLDT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	23	3.2	6	3.2
NOT IN TEXT	182	96.8	188	100.0

72.FUTURE..ANGLE SUM BY FOLDING

GMHFLDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200			
	3	27.3	3	27.3
NEGATIVE REASON	8	72.7	11	100.0

72.HARD..ANGLE SUM BY FOLDING

GMHFLDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205			
	4	66.7	4	66.7
NEGATIVE REASON	2	33.3	6	100.0

72.KNOWN..ANGLE SUM BY FOLDING

GMHFLDK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	170			
	1	2.4	1	2.4
NEGATIVE REASON	40	97.6	41	100.0

72.LIKED..ANGLE SUM BY FOLDING

GMHFLDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

72.RELATED..ANGLE SUM BY FOLDING

GMHFLDR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209			
	2	100.0	2	100.0

72.SYLLABUS..ANGLE SUM BY FOLDING

GMHFLDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	134			
	2	2.6	2	2.6
NEGATIVE REASON	75	97.4	77	100.0

72.UNDERSTAND..ANGLE SUM BY FOLDING

GMHFLDU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	199			
	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

73.TEXT EMPHASIS..ANGLE SUM BY FOLDING

GMHFLDX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	169			
	4	9.5	4	9.5
NEGATIVE REASON	38	90.5	42	100.0

74.EMPHASIZED..ANGLE SUM BY TRAVELLING

GMHTRVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10			
USED	8	4.0	8	4.0
NOT USED	19	9.5	27	13.4
	174	86.6	201	100.0

75.IN TEXT..ANGLE SUM BY TRAVELLING

GMHTRVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	23			
	13	6.9	13	6.9
NOT IN TEXT	175	93.1	188	100.0

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76.FUTURE..ANGLE SUM BY TRAVELLING

GMHTRVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209			
	2	100.0	2	100.0

76.HARD..ANGLE SUM BY TRAVELLING

GMHTRVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	204			
	2	28.6	2	28.6
NEGATIVE REASON	5	71.4	7	100.0

76.KNOWN..ANGLE SUM BY TRAVELLING

GMHTRVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	173			
	2	5.3	2	5.3
NEGATIVE REASON	36	94.7	38	100.0

76.LIKED..ANGLE SUM BY TRAVELLING

GMHTRVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	2	40.0	2	40.0
NEGATIVE REASON	3	60.0	5	100.0

76.RELATED..ANGLE SUM BY TRAVELLING

GMHTRVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209			
	2	100.0	2	100.0

76.SYLLABUS..ANGLE SUM BY TRAVELLING

GMHTRVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	134			
	1	1.3	1	1.3
NEGATIVE REASON	76	98.7	77	100.0

76.UNDERSTAND..ANGLE SUM BY TRAVELLING

GMHTRVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	188			
	8	34.8	8	34.8
NEGATIVE REASON	15	65.2	23	100.0

77.TEXT EMPHASIS..ANGLE SUM TRAVELLING

GMHTRVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	176			
	35	100.0	35	100.0

78.EMPHASIZED..ANGLE SUM BY TESSELTATIONS

GMHTESE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10			
USED	3	1.5	3	1.5
NOT USED	3	1.5	6	3.0
	195	97.0	201	100.0

79.IN TEXT..ANGLE SUM BY TESSELTATIONS

GMHTEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	23			
	3	1.6	3	1.6
NOT IN TEXT	185	98.4	188	100.0

8.FUTURE..ANGLE SUM BY TESSELTATIONS

GMHTESF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	207			
	4	100.0	4	100.0

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8.HARD..ANGLE SUM BY TESSELATIONS

GMHTESH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	203 8	100.0	8	100.0

8.KNOWN..ANGLE SUM BY TESSELATIONS

GMHTESK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	156 55	100.0	55	100.0

8.LIKED..ANGLE SUM BY TESSELATIONS

GMHTESL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210 1	100.0	1	100.0

8.RELATED..ANGLE SUM BY TESSELATIONS

GMHTESR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211	.	.	.

8.SYLLABUS..ANGLE SUM BY TESSELATIONS

GMHTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	136 75	100.0	75	100.0

8.UNDERSTAND..ANGLE SUM BY TESSELATIONS

GMHTESU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200 3	27.3	3	27.3
NEGATIVE REASON	8	72.7	11	100.0

81.TEXT EMPHASIS..ANGLE SUM TESSELATIONS

GMHTESX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	173 38	100.0	38	100.0

82.EMPHASIZED..ANGLE SUM BY R AND C

GMHRCE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	10 5	2.5	5	2.5
USED	9	4.5	14	7.0
NOT USED	187	93.0	201	100.0

83.IN TEXT..ANGLE SUM BY R AND C

GMHRCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	23 7	3.7	7	3.7
NOT IN TEXT	181	96.3	188	100.0

84.FUTURE..ANGLE SUM BY R AND C

GMHRCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	204 1	14.3	1	14.3
NEGATIVE REASON	6	85.7	7	100.0

84.HARD..ANGLE SUM BY R AND C

GMHRCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	204 1	14.3	1	14.3
NEGATIVE REASON	6	85.7	7	100.0

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

84.KNOWN..ANGLE SUM BY R AND C

GMHRCK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	161 1	2.0	1	2.0
NEGATIVE REASON	49	98.0	50	100.0

84.LIKED..ANGLE SUM BY R AND C

GMHRCL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209 2	100.0	2	100.0

84.RELATED..ANGLE SUM BY R AND C

GMHRCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211	.	.	.

84.SYLLABUS..ANGLE SUM BY R AND C

GMHRCS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	137 74	100.0	74	100.0

84.UNDERSTAND..ANGLE SUM BY R AND C

GMHRCU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	188 4	17.4	4	17.4
NEGATIVE REASON	19	82.6	23	100.0

85.TEXT EMPHASIS..ANGLE SUM BY R AND C

GMHRCX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	178 33	100.0	33	100.0

86.EMPHASIZED..PYTHAGOREAN BY MEASURING

GMPMSRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	12 9	4.5	9	4.5
USED	12	6.0	21	10.6
NOT USED	178	89.4	199	100.0

87.IN TEXT..PYTHAGOREAN BY MEASURING

GMPMSRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	26 14	7.6	14	7.6
NOT IN TEXT	171	92.4	185	100.0

88.FUTURE..PYTHAGOREAN BY MEASURING

GMPMSRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211	.	.	.

88.HARD..PYTHAGOREAN BY MEASURING

GMPMSRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207 3	75.0	3	75.0
NEGATIVE REASON	1	25.0	4	100.0

88.KNOWN..PYTHAGOREAN BY MEASURING

GMPMSRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	179 1	3.1	1	3.1
NEGATIVE REASON	31	96.9	32	100.0

88.LIKED..PYTHAGOREAN BY MEASURING

GMPMSRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208 3	100.0	3	100.0

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88.RELATED..PYTHAGOREAN BY MEASURING

GMPMSRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	1	33.3	1	33.3
NEGATIVE REASON	2	66.7	3	100.0

88.SYLLABUS..PYTHAGOREAN BY MEASURING

GMPMSRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	112			
	2	2.0	2	2.0
NEGATIVE REASON	97	98.0	99	100.0

88.UNDERSTAND..PYTHAGOREAN BY MEASURING

GMPMSRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196			
	7	46.7	7	46.7
NEGATIVE REASON	8	53.3	15	100.0

89.TEXT EMPHASIS..PYTHAGOREAN MEASURING

GMPMSRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	182			
	2	6.9	2	6.9
NEGATIVE REASON	27	93.1	29	100.0

9.EMPHASIZED..PYTHAGOREAN BY DIAGRAMS

GMPDGME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	12			
	14	7.0	14	7.0
USED	9	4.5	23	11.6
NOT USED	176	88.4	199	100.0

91.IN TEXT..PYTHAGOREAN BY DIAGRAMS

GMPDGMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	27			
	23	12.5	23	12.5
NOT IN TEXT	161	87.5	184	100.0

92.FUTURE..PYTHAGOREAN BY DIAGRAMS

GMPDGMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209			
	2	100.0	2	100.0

92.HARD..PYTHAGOREAN BY DIAGRAMS

GMPDGMH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

92.KNOWN..PYTHAGOREAN BY DIAGRAMS

GMPDGMK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	180			
	2	6.5	2	6.5
NEGATIVE REASON	29	93.5	31	100.0

92.LIKED..PYTHAGOREAN BY DIAGRAMS

GMPDGM L	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	3	100.0	3	100.0

92.RELATED..PYTHAGOREAN BY DIAGRAMS

GMPDGM R	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	208			
	3	100.0	3	100.0

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

92.SYLLABUS..PYTHAGOREAN BY DIAGRAMS

GMPDGMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	111			
	3	3.0	3	3.0
NEGATIVE REASON	97	97.0	100	100.0

92.UNDERSTAND..PYTHAGOREAN BY DIAGRAMS

GMPDGMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	189			
	14	63.6	14	63.6
NEGATIVE REASON	8	36.4	22	100.0

93.TEXT EMPHASIS..PYTHAGOREAN DIAGRAMS

GMPDGMX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	177			
	5	14.7	5	14.7
NEGATIVE REASON	29	85.3	34	100.0

94.EMPHASIZED..PYTHAGOREAN BY FORMULA

GMPFRME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	13			
	12	6.1	12	6.1
USED	8	4.0	20	10.1
NOT USED	178	89.9	198	100.0

95.IN TEXT..PYTHAGOREAN BY FORMULA

GMPFRMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	28			
	20	10.9	20	10.9
NOT IN TEXT	163	89.1	183	100.0

96.FUTURE..PYTHAGOREAN BY FORMULA

GMPFRMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

96.HARD..PYTHAGOREAN BY FORMULA

GMPFRMH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	1	33.3	1	33.3
NEGATIVE REASON	2	66.7	3	100.0

96.KNOWN..PYTHAGOREAN BY FORMULA

GMPFRMK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	178			
	1	3.0	1	3.0
NEGATIVE REASON	32	97.0	33	100.0

96.LIKED..PYTHAGOREAN BY FORMULA

GMPFRML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210			
	1	100.0	1	100.0

96.RELATED..PYTHAGOREAN BY FORMULA

GMPFRMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209			
	2	100.0	2	100.0

96.SYLLABUS..PYTHAGOREAN BY FORMULA

GMPFRMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	113			
	1	1.0	1	1.0
NEGATIVE REASON	97	99.0	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

96.UNDERSTAND..PYTHAGOREAN BY FORMULA

GMPFRMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	198			
	5	38.5	5	38.5
NEGATIVE REASON	8	61.5	13	100.0

97.TEXT EMPHASIS..PYTHAGOREAN BY FORMULA

GMPFRMX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	178			
	3	9.1	3	9.1
NEGATIVE REASON	30	90.9	33	100.0

98.EMPHASIZED..PYTHAGOREAN BY HISTORY

GMPHISE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	15			
	7	3.6	7	3.6
USED	17	8.7	24	12.2
NOT USED	172	87.8	196	100.0

99.IN TEXT..PYTHAGOREAN BY HISTORY

GMPHIST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	31			
	2	5.0	9	5.0
NOT IN TEXT	171	95.0	180	100.0

1.FUTURE..PYTHAGOREAN BY HISTORY

GMPHISF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

1.HARD..PYTHAGOREAN BY HISTORY

GMPHISH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210			
	1	100.0	1	100.0

1.KNOWN..PYTHAGOREAN BY HISTORY

GMPHISK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	182			
	2	6.9	2	6.9
NEGATIVE REASON	27	93.1	29	100.0

1.LIKED..PYTHAGOREAN BY HISTORY

GMPHISL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

1.RELATED..PYTHAGOREAN BY HISTORY

GMPHISR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209			
	2	100.0	2	100.0

1.SYLLABUS..PYTHAGOREAN BY HISTORY

GMPHISS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	117			
	94	100.0	94	100.0

1.UNDERSTAND..PYTHAGOREAN BY HISTORY

GMPHISU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	203			
	4	50.0	4	50.0
NEGATIVE REASON	4	50.0	8	100.0

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11.TEXT EMPHASIS..PYTHAGOREAN HISTORY

GMPHISX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	178			
	33	100.0	33	100.0

12.EMPHASIZED..PYTHAGOREAN BY PHY MODEL

GMPPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	15			
	12	6.1	12	6.1
USED	11	5.6	23	11.7
NOT USED	173	88.3	196	100.0

13.IN TEXT..PYTHAGOREAN BY PHY MODEL

GMPPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	32			
	21	11.7	21	11.7
NOT IN TEXT	158	88.3	179	100.0

14.FUTURE..PYTHAGOREAN BY PHY MODEL

GMPPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
	4	100.0	4	100.0

14.HARD..PYTHAGOREAN BY PHY MODEL

GMPPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

14.KNOWN..PYTHAGOREAN BY PHY MODEL

GMPPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	186			
	25	100.0	25	100.0

14.LIKED..PYTHAGOREAN BY PHY MODEL

GMPPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209			
	2	100.0	2	100.0

14.RELATED..PYTHAGOREAN BY PHY MODEL

GMPPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210			
	1	100.0	1	100.0

14.SYLLABUS..PYTHAGOREAN BY PHY MODEL

GMPPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	111			
	2	2.0	2	2.0
NEGATIVE REASON	98	98.0	100	100.0

14.UNDERSTAND..PYTHAGOREAN BY PHY MODEL

GMPPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	194			
	10	58.8	10	58.8
NEGATIVE REASON	7	41.2	17	100.0

15.TEXT EMPHASIS..PYTHAGOREAN PHY MODEL

GMPPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	173			
	5	13.2	5	13.2
NEGATIVE REASON	33	86.8	38	100.0

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16. EMPHASIZED..PYTHAGOREAN DDUCT ALGB

GMPDALE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	15			
USED	5	2.6	5	2.6
NOT USED	12	6.1	17	8.7
	179	91.3	196	100.0

17. IN TEXT..PYTHAGOREAN BY DDUCT ALGB

GMPDALT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	30			
NOT IN TEXT	14	7.7	14	7.7
	167	92.3	181	100.0

18. FUTURE..PYTHAGOREAN BY DDUCT ALGB

GMPDALF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	3	100.0	3	100.0

18. HARD..PYTHAGOREAN BY DDUCT ALGB

GMPDALH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
NEGATIVE REASON	1	20.0	1	20.0
	4	80.0	5	100.0

18. KNOWN..PYTHAGOREAN BY DDUCT ALGB

GMPDALK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	185			
	26	100.0	26	100.0

18. LIKED..PYTHAGOREAN BY DDUCT ALGB

GMPDALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	210			
	1	100.0	1	100.0

18. RELATED..PYTHAGOREAN BY DDUCT ALGB

GMPDALR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210			
	1	100.0	1	100.0

18. SYLLABUS..PYTHAGOREAN DDUCT ALGB

GMPDALS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	114			
	97	100.0	97	100.0

18. UNDERSTAND..PYTHAGOREAN DDUCT ALGB

GMPDALU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	194			
NEGATIVE REASON	6	35.3	6	35.3
	11	64.7	17	100.0

19. TEXT EMPHASIS..PYTHAGOREAN DDUCT ALGB

GMPDALX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	177			
	34	100.0	34	100.0

11. EMPHASIZED..PYTHAGOREAN DDUCT AREA

GMPDARE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	15			
USED	4	2.0	4	2.0
NOT USED	16	8.2	20	10.2
	176	89.8	196	100.0

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111. IN TEXT..PYTHAGOREAN BY DDUCT AREA

GMPDART	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	30			
NOT IN TEXT	18	9.9	18	9.9
	163	90.1	181	100.0

112. FUTURE..PYTHAGOREAN BY DDUCT AREA

GMPDARF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	210			
	1	100.0	1	100.0

112. HARD..PYTHAGOREAN BY DDUCT AREA

GMPDARH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	207			
	4	100.0	4	100.0

112. KNOWN..PYTHAGOREAN BY DDUCT AREA

GMPDARK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	184			
	27	100.0	27	100.0

112. LIKED..PYTHAGOREAN BY DDUCT AREA

GMPDARL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

112. RELATED..PYTHAGOREAN BY DDUCT AREA

GMPDARR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	210			
	1	100.0	1	100.0

112. SYLLABUS..PYTHAGOREAN BY DDUCT AREA

GMPDARS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	113			
	98	100.0	98	100.0

112. UNDERSTAND..PYTHAGOREAN DDUCT AREA

GMPDARU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	198			
NEGATIVE REASON	4	30.8	4	30.8
	9	69.2	13	100.0

113. TEXT EMPHASIS..PYTHAGOREAN DDUCT AREA

GMPDARX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	177			
NEGATIVE REASON	2	5.9	2	5.9
	32	94.1	34	100.0

114. CNRNT TRIANGLES..DEF. PROPERTIES

GMCTDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	14			
OCCASIONALLY	31	15.7	31	15.7
RARELY OR NEVER	13	6.6	44	22.3
	153	77.7	197	100.0

115. CNRNT TRIANGLES..GRAPH TRACNG PAPER

GMCTPAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	15			
OCCASIONALLY	5	2.6	5	2.6
RARELY OR NEVER	22	11.2	27	13.8
	169	86.2	196	100.0

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116.CNCRNT TRIANGLES..MEASUREMENT

GMCTMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	14	2.5	5	2.5
OCCASIONALLY	28	14.2	33	16.8
RARELY OR NEVER	164	83.2	197	100.0

117.CNCRNT TRIANGLES..RULERS AND COMPASS

GMCTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	14	7.3	34	17.3
OCCASIONALLY	27	13.7	61	31.0
RARELY OR NEVER	136	69.0	197	100.0

118.CNCRNT TRIANGLES..GEOBOARD

GMCTGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	13	0.5	1	0.5
OCCASIONALLY	10	5.1	11	5.6
RARELY OR NEVER	187	94.4	198	100.0

119.CNCRNT TRIANGLES..ENVIRONMENT

GMCTENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	13	1.0	2	1.0
OCCASIONALLY	21	10.6	23	11.6
RARELY OR NEVER	175	88.4	198	100.0

12.CNCRNT TRIANGLES..TRANSFORMATIONS

GMCTTRN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	14	2.0	4	2.0
OCCASIONALLY	23	11.7	27	13.7
RARELY OR NEVER	170	86.3	197	100.0

121.SMLR TRIANGLES..DEF. PROPERTIES

GMSTDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	15	10.2	20	10.2
OCCASIONALLY	20	3.6	27	13.8
RARELY OR NEVER	169	86.2	196	100.0

122.SMLR TRIANGLES..GRAPH TRACING PAPER

GMSTPAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	2.1	4	2.1
OCCASIONALLY	4	7.7	19	9.8
RARELY OR NEVER	175	90.2	194	100.0

123.SMLR TRIANGLES..MEASUREMENT

GMSTMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	2.6	5	2.6
OCCASIONALLY	5	9.8	24	12.4
RARELY OR NEVER	19	97.6	194	100.0

124.SMLR TRIANGLES..RULER AND COMPASS

GMSTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	8.2	16	8.2
OCCASIONALLY	16	8.2	32	16.5
RARELY OR NEVER	162	83.5	194	100.0

125.SMLR TRIANGLES..GEOBOARD

GMSTGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	0.5	1	0.5
OCCASIONALLY	1	3.1	7	3.6
RARELY OR NEVER	187	96.4	194	100.0

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126.SMLR TRIANGLES..ENVIRONMENT

GMSTENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	1.5	3	1.5
OCCASIONALLY	22	11.3	25	12.9
RARELY OR NEVER	169	87.1	194	100.0

127.SMLR TRIANGLES..DILATIONS

GMSTDIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	6.2	12	6.2
OCCASIONALLY	12	7.2	26	13.4
RARELY OR NEVER	168	86.6	194	100.0

128.PARALLEL LINES..DEFINITION EXAMPLES

GMLLDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	34.0	69	34.0
OCCASIONALLY	69	26.1	122	60.1
RARELY OR NEVER	53	39.9	203	100.0

129.PARALLEL LINES..PAPER FOLDING

GMLLFLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	2.0	4	2.0
OCCASIONALLY	4	11.8	28	13.8
RARELY OR NEVER	24	86.2	203	100.0

13.PARALLEL LINES..MEASUREMENT

GMLLSMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	9.9	20	9.9
OCCASIONALLY	20	29.6	80	39.4
RARELY OR NEVER	60	60.6	203	100.0

131.PARALLEL LINES..RULER AND COMPASS

GMLLRRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7	25.0	51	25.0
OCCASIONALLY	51	20.6	93	45.6
RARELY OR NEVER	42	54.4	204	100.0

132.PARALLEL LINES..TESSELLATIONS

GMLLTES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	3.0	6	3.0
OCCASIONALLY	6	7.9	22	10.8
RARELY OR NEVER	16	89.2	203	100.0

133.PARALLEL LINES..GEOBOARDS

GMLLGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	1.0	2	1.0
OCCASIONALLY	2	4.9	12	5.9
RARELY OR NEVER	10	94.1	203	100.0

134.PARALLEL LINES..STRIGHTEDGE SET SQRS

GMLLSSQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7	22.1	45	22.1
OCCASIONALLY	45	35.8	118	57.8
RARELY OR NEVER	73	42.2	204	100.0

135.PARALLEL LINES..ENVIRONMENT

GMLLENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	18.7	38	18.7
OCCASIONALLY	38	36.5	112	55.2
RARELY OR NEVER	74	44.8	203	100.0

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136. PARALLEL LINES..TRANSLATIONS

GMLLTRN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8			
OCCASIONALLY	19	9.4	19	9.4
RARELY OR NEVER	38	18.7	57	28.1
	146	71.9	203	100.0

137. PARALLEL LINES..REFLECTIONS

GMLLREF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8			
OCCASIONALLY	5	2.5	5	2.5
RARELY OR NEVER	19	9.4	24	11.8
	179	88.2	203	100.0

138. PARALLEL LINES..ROTATIONS

GMLLROT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7			
OCCASIONALLY	10	4.9	10	4.9
RARELY OR NEVER	17	8.3	27	13.2
	177	86.8	204	100.0

139. SPATIAL RLTHS..PRE-MADE 2 D PATTERN

GMSRPAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	5			
OCCASIONALLY	42	20.4	42	20.4
RARELY OR NEVER	87	42.2	129	62.6
	77	37.4	206	100.0

14. SPATIAL RLTHS..DESIGN 2 D PATTERN

GMSRDGN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	5			
OCCASIONALLY	53	25.7	53	25.7
RARELY OR NEVER	106	51.5	159	77.2
	47	22.8	206	100.0

141. SPATIAL RLTHS..2 D DRAWING

GMSRDRW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6			
OCCASIONALLY	71	34.6	71	34.6
RARELY OR NEVER	95	46.3	166	81.0
	39	19.0	205	100.0

142. SPATIAL RLTHS..DRAWING PLANS ELEVATNS

GMSRPLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7			
OCCASIONALLY	8	3.9	8	3.9
RARELY OR NEVER	22	10.8	30	14.7
	174	85.3	204	100.0

143. SPATIAL RLTHS..INTERSECTN WITH PLANE

GMSRINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6			
OCCASIONALLY	11	5.4	11	5.4
RARELY OR NEVER	83	40.5	94	45.9
	111	54.1	205	100.0

144. SPATIAL RLTHS..NUMERICAL ALGEBRAIC

GMSRALG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7			
OCCASIONALLY	19	9.3	19	9.3
RARELY OR NEVER	63	30.9	82	40.2
	122	59.8	204	100.0

145. SPATIAL RLTHS..BUILD MODEL PLANES

GMSRBLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	7			
OCCASIONALLY	14	6.9	14	6.9
RARELY OR NEVER	41	20.1	55	27.0
	149	73.0	204	100.0

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146. SPATIAL RLTHS..PREDICT SHAPE SHADOWS

GMSRSHD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	12			
OCCASIONALLY	2	1.0	2	1.0
RARELY OR NEVER	20	10.1	22	11.1
	177	88.9	199	100.0

147. AVERAGE LENGTH MATH PERIOD MINUTES

GPSTZ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
40	1			
42	3	1.4	3	1.4
45	1	0.5	4	1.9
46	105	50.0	109	51.9
47	1	0.5	110	52.4
48	4	1.9	114	54.3
50	11	5.2	125	59.5
	85	40.5	210	100.0

148. PERIODS..TOTAL IN GEOMETRY

GPSTOTAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4			
1	1	0.5	1	0.5
2	1	0.5	2	1.0
3	1	0.5	3	1.4
4	1	0.5	4	1.9
5	1	0.5	5	2.4
8	1	0.5	6	2.9
9	1	0.5	7	3.4
10	4	1.9	11	5.3
12	5	2.4	16	7.7
13	4	1.9	20	9.7
14	5	2.4	25	12.1
15	8	3.9	33	15.9
16	7	3.4	40	19.3
17	8	3.9	48	23.2
18	11	5.3	59	28.5
19	8	3.9	67	32.4
20	27	13.0	94	45.4
21	15	7.2	109	52.7
22	6	2.9	115	55.6
23	6	2.9	121	58.5
24	14	6.8	135	65.2
25	15	7.2	150	72.5
26	6	2.9	156	75.4
27	6	2.9	162	78.3
28	6	2.9	168	81.2
29	2	1.0	170	82.1
30	5	2.4	175	84.5
31	1	0.5	176	85.0
32	3	1.4	179	86.5
33	4	1.9	183	88.4
34	4	1.9	187	90.3
35	4	1.9	191	92.3
36	2	1.0	193	93.2
37	1	0.5	194	93.7
38	2	1.0	196	94.7
40	8	3.9	204	98.6
45	1	0.5	205	99.0
47	1	0.5	206	99.5
60	1	0.5	207	100.0

149. PERIODS..CONCEPT OF ANGLES

GPANGLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7			
1	24	11.8	24	11.8
2	79	38.7	103	50.5
3	64	31.4	167	81.9
4	27	13.2	194	95.1
5	9	4.4	203	99.5
6	1	0.5	204	100.0

15. PERIODS..TRANSFORMATIONS

GPTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	9			
1	115	56.9	115	56.9
2	36	17.8	151	74.8
3	32	15.8	183	90.6
4	9	4.5	192	95.0
5	7	3.5	199	98.5
6	2	1.0	201	99.5
	1	0.5	202	100.0

151. PERIODS..VECTORS

GPVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5			
1	204	99.0	204	99.0
2	1	0.5	205	99.5
	1	0.5	206	100.0

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152.PERIODS..THE PYTHAGOREAN THEOREM

GPPYTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5			
0	204	99.0	204	99.0
5	1	0.5	205	99.5
6	1	0.5	206	100.0

153.PERIODS..TRIANGLES..THEIR PROPERTIES

GPTRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	6			
0	90	43.9	90	43.9
1	38	18.5	128	62.4
2	50	24.4	178	86.8
3	21	10.2	199	97.1
4	5	2.4	204	99.5
6	1	0.5	205	100.0

154.PERIODS..POLYGONS..THEIR PROPERTIES

GPPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	10			
0	105	52.2	105	52.2
1	32	15.9	137	68.2
2	32	15.9	169	84.1
3	25	12.4	194	96.5
4	4	2.0	198	98.5
5	1	0.5	199	99.0
6	2	1.0	201	100.0

155.PERIODS..CIRCLES..THEIR PROPERTIES

GPCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8			
0	39	19.2	39	19.2
1	32	15.8	71	35.0
2	43	21.2	114	56.2
3	47	23.2	161	79.3
4	25	12.3	186	91.6
5	12	5.9	198	97.5
6	1	0.5	201	99.0
7	1	0.5	202	99.5
10	1	0.5	203	100.0

156.PERIODS..CONGRUENCE OF GEOM. FIGURES

GPCNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	10			
0	163	81.1	163	81.1
1	17	8.5	180	89.6
2	6	3.0	186	92.5
3	5	2.5	191	95.0
4	6	3.0	197	98.0
5	1	0.5	198	98.5
6	1	0.5	199	99.0
8	1	0.5	200	99.5
10	1	0.5	201	100.0

157.PERIODS..SIMILARITY OF GEOM. FIGURES

GPSIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	10			
0	195	97.0	195	97.0
1	1	0.5	196	97.5
2	1	0.5	197	98.0
3	1	0.5	198	98.5
4	1	0.5	199	99.0
9	1	0.5	200	99.5
40	1	0.5	201	100.0

158.PERIODS..PARALLEL LINES

GPPLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8			
0	72	35.5	72	35.5
1	69	34.0	141	69.5
2	44	21.7	185	91.1
3	13	6.4	198	97.5
4	1	0.5	199	98.0
5	1	0.5	200	98.5
6	2	1.0	202	99.5
8	1	0.5	203	100.0

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159.PERIODS..SPATIAL RELATIONS

GPSREL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	9			
0	21	10.4	21	10.4
1	24	11.9	45	22.3
2	49	24.3	94	46.5
3	38	18.8	132	65.3
4	26	12.9	158	78.2
5	18	8.9	176	87.1
6	10	5.0	186	92.1
7	2	1.0	188	93.1
8	2	1.0	190	94.1
9	2	1.0	192	95.0
10	5	2.5	197	97.5
11	1	0.5	198	98.0
12	1	0.5	199	98.5
13	1	0.5	200	99.0
17	1	0.5	201	99.5
20	1	0.5	202	100.0

16.PERIODS..GEOMETRIC SOLIDS

GPSOLID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8			
0	20	9.9	20	9.9
1	24	11.8	44	21.7
2	43	21.2	87	42.9
3	40	19.7	127	62.6
4	33	16.3	160	78.8
5	18	8.9	178	87.7
6	9	4.4	187	92.1
7	9	4.4	196	96.6
8	3	1.5	199	98.0
9	1	0.5	200	98.5
10	2	1.0	202	99.5
20	1	0.5	203	100.0

161.PERIODS..CONSTRUCTIONS RULER COMPASS

GPCRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7			
0	15	7.4	15	7.4
1	14	6.9	29	14.2
2	55	27.0	84	41.2
3	62	30.4	146	71.6
4	27	13.2	173	84.8
5	18	8.8	191	93.6
6	8	3.9	199	97.5
8	1	0.5	200	98.0
9	1	0.5	201	98.5
10	2	1.0	203	99.5
20	1	0.5	204	100.0

162.PERIODS..PROOFS FORMAL DEDUCTV DEMOS

GPPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	11			
0	166	83.0	166	83.0
1	15	7.5	181	90.5
2	10	5.0	191	95.5
3	2	1.0	193	96.5
4	3	1.5	196	98.0
5	2	1.0	198	99.0
6	1	0.5	199	99.5
30	1	0.5	200	100.0

163.PERIODS..TESSELLATIONS

GPTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7			
0	201	98.5	201	98.5
1	1	0.5	202	99.0
4	1	0.5	203	99.5
10	1	0.5	204	100.0

164.PERIODS..COORDINATE GEOMETRY

GPCOOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	8			
0	169	83.3	169	83.3
1	13	6.4	182	89.7
2	10	4.9	192	94.6
3	6	3.0	198	97.5
4	1	0.5	199	98.0
5	1	0.5	200	98.5
6	1	0.5	201	99.0
7	1	0.5	202	99.5
8	1	0.5	203	100.0

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165.PERIODS..APPLICATIONS PROBLEM SOLVING

GPAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	7	23.0	7	23.0
1	47	12.3	54	35.3
2	25	23.0	79	58.3
3	47	18.6	126	77.0
4	38	9.3	164	86.8
5	10	4.9	174	91.7
6	11	5.4	185	97.1
8	2	1.0	187	98.0
10	3	1.5	190	99.5
16	1	0.5	191	100.0

166.OPINION..OBJECTIVE MODEL REAL WORLD

GOMREAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	8	9.9	8	9.9
AGREE	20	51.7	28	61.6
UNDECIDED	105	34.0	133	95.6
DISAGREE	69	3.9	202	99.5
STRONGLY DISAGRE	1	0.5	203	100.0

167.OPINION..GOAL DEDUCTIVE PROCEDURES

GODEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	2.4	6	2.4
AGREE	5	17.6	11	20.0
UNDECIDED	59	28.8	70	48.8
DISAGREE	85	41.5	155	90.2
STRONGLY DISAGRE	20	9.8	175	100.0

168.OPINION..OBJECTIVE IS FORMAL DEMO

GOFDemo	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	5.9	6	5.9
AGREE	102	49.8	108	55.6
UNDECIDED	48	23.4	156	79.0
DISAGREE	40	19.5	196	98.5
STRONGLY DISAGRE	3	1.5	199	100.0

169.OPINION..ORDER OF AXIOMATIC APPROACH

GOAXIOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	2.0	6	2.0
AGREE	64	31.2	70	33.2
UNDECIDED	91	44.4	161	77.6
DISAGREE	42	20.5	203	98.0
STRONGLY DISAGRE	4	2.0	207	100.0

17.OPINION..INTUITIVE STYLE MEANS MORE

GOINTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	7	12.7	7	12.7
AGREE	135	66.2	142	78.9
UNDECIDED	37	18.1	179	97.1
DISAGREE	6	2.9	185	100.0

171.OPINION..TEACH WITH TRANSFORMATIONS

GOTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	7	2.5	7	2.5
AGREE	48	23.5	55	26.0
UNDECIDED	111	54.4	166	80.4
DISAGREE	35	17.2	201	97.5
STRONGLY DISAGRE	5	2.5	206	100.0

172.OPINION..USE MODELS AIDS ESSENTIAL

GOAIDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	7	39.2	7	39.2
AGREE	80	48.0	87	87.3
UNDECIDED	21	10.3	108	97.5
DISAGREE	4	2.0	112	99.5
STRONGLY DISAGRE	1	0.5	113	100.0

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173.OPINION..3 D FOR MEASUREMENT ONLY

GOTHRD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	3.4	6	3.4
AGREE	7	22.9	13	26.3
UNDECIDED	47	35.6	60	62.0
DISAGREE	73	35.6	133	97.6
STRONGLY DISAGRE	5	2.4	138	100.0

174.OPINION..CONCEPT OF TRANSLATION

GOCPTTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	7	2.5	7	2.5
AGREE	110	53.9	117	56.4
UNDECIDED	75	36.8	192	93.1
DISAGREE	14	6.9	206	100.0

175.OPINION..INCLUDE CONCEPT OF VECTOR

GOCPTVC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

176.OPINION..DELAY STUDY OF VECTORS

GODELVC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	10	21.4	10	21.4
AGREE	43	45.8	53	67.2
UNDECIDED	92	26.9	145	94.0
DISAGREE	54	4.0	199	98.0
STRONGLY DISAGRE	4	2.0	203	100.0

177.OPINION..VISUALIZATION ACTIVITIES

GOVISUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	13.7	6	13.7
AGREE	28	72.7	34	86.3
UNDECIDED	149	9.8	183	96.1
DISAGREE	20	3.4	203	99.5
STRONGLY DISAGRE	7	0.5	210	100.0

178.OPINION..POLYGONS..TRNGL & SQR ONLY

GOPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	1.5	6	1.5
AGREE	3	14.6	9	16.1
UNDECIDED	30	34.6	39	50.7
DISAGREE	71	45.4	110	96.1
STRONGLY DISAGRE	93	3.9	203	100.0

179.OPINION..SKILL IN RULER COMPASS

GORC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	13.2	6	13.2
AGREE	27	55.6	33	68.8
UNDECIDED	114	27.8	147	96.6
DISAGREE	57	2.9	204	99.5
STRONGLY DISAGRE	6	0.5	210	100.0

18.OPINION..DEMO OF PROOFS ESSENTIAL

GOPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	4.4	6	4.4
AGREE	9	28.8	15	33.2
UNDECIDED	59	32.7	74	65.9
DISAGREE	67	29.8	141	95.6
STRONGLY DISAGRE	61	4.4	202	100.0

181.OPINION..GEOM. FOR HIGHER EDUCATION

GOHEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	2.0	6	2.0
AGREE	4	0.5	10	2.4
UNDECIDED	1	11.2	11	13.7
DISAGREE	23	61.0	34	74.6
STRONGLY DISAGRE	125	25.4	159	100.0

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

182.OPINION..DELAY PROOF OF THEOREMS

GODELPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6			
	1	0.5	1	0.5
AGREE	29	14.1	30	14.6
UNDECIDED	83	40.5	113	55.1
DISAGREE	79	38.5	192	93.7
STRONGLY DISAGRE	13	6.3	205	100.0

Classroom Process Questionnaire

ALGEBRA

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

CLASSROOM PROCESS QUESTIONNAIRE -- JAPAN -- POPULATION A

1. USE OF..STUDENT TEXTBOOK

ASTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	173	82.4	173	82.4
OCCASIONALLY	29	13.8	202	96.2
RARELY OR NEVER	8	3.8	210	100.0

2. USE OF..OTHER PUBLISHED TEXT MATERIAL

ASOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	73	34.8	73	34.8
OCCASIONALLY	103	49.0	176	83.8
RARELY OR NEVER	34	16.2	210	100.0

3. USE OF..LOCALLY PRODUCED TEXT MATERIAL

ASLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	42	20.1	42	20.1
OCCASIONALLY	47	22.5	89	42.6
RARELY OR NEVER	120	57.4	209	100.0

4. USE OF..INDIVIDUALIZED MATERIALS

ASINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	17	8.2	17	8.2
OCCASIONALLY	46	22.1	63	30.3
RARELY OR NEVER	145	69.7	208	100.0

5. USE OF..FILMS, FILMSTRIPS, MODELS

ASFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	8	3.8	8	3.8
OCCASIONALLY	38	18.2	46	22.0
RARELY OR NEVER	163	78.0	209	100.0

6. USE OF..LABORATORY MATERIALS

ASLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	14	6.7	14	6.7
OCCASIONALLY	42	20.1	56	26.8
RARELY OR NEVER	153	73.2	209	100.0

7. TOPIC..CONCEPT OF POS AND NEG INTEGERS

ATIPN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	170	81.0	170	81.0
REVIEWED THEN EX	36	17.1	206	98.1
REVIEWED ONLY	3	1.4	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

8. TOPIC..ADDITION OF INTEGERS

ATIADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	187	89.0	187	89.0
REVIEWED THEN EX	20	9.5	207	98.6
REVIEWED ONLY	2	1.0	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

9. TOPIC..SUBTRACTION OF INTEGERS

ATISUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	185	88.1	185	88.1
REVIEWED THEN EX	22	10.5	207	98.6
REVIEWED ONLY	2	1.0	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

1. TOPIC..MULTIPLICATION OF INTEGERS

ATIMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	192	91.4	192	91.4
REVIEWED THEN EX	15	7.1	207	98.6
REVIEWED ONLY	2	1.0	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

11. TOPIC..DIVISION OF INTEGERS

ATIDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	189	90.0	189	90.0
REVIEWED THEN EX	18	8.6	207	98.6
REVIEWED ONLY	2	1.0	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

12. TOPIC..STRUCTURAL PROPS..INTEGER SET

ATISTRG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	146	69.5	146	69.5
REVIEWED THEN EX	53	25.2	199	94.8
REVIEWED ONLY	8	3.8	207	98.6
NOT TAUGHT, ASSU	1	0.5	208	99.0
NOT TAUGHT, NOT	2	1.0	210	100.0

13. TOPIC..ORDER RELATIONS OF INTEGERS

ATIORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	156	74.3	156	74.3
REVIEWED THEN EX	47	22.4	203	96.7
REVIEWED ONLY	6	2.9	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

14. TOPIC..EVALUATIONS OF FORMULAS

ATEEVAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	169	80.5	169	80.5
REVIEWED THEN EX	34	16.2	203	96.7
REVIEWED ONLY	6	2.9	209	99.5
NOT TAUGHT, ASSU	1	0.5	210	100.0

15. TOPIC..DERIVING FORMULAS OR EQUATIONS

ATEDERV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	152	72.7	152	72.7
REVIEWED THEN EX	53	25.4	205	98.1
REVIEWED ONLY	3	1.4	208	99.5
NOT TAUGHT, ASSU	1	0.5	209	100.0

16. TOPIC..SOLVING LITERAL EQUATIONS

ATESLIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	122	58.1	122	58.1
REVIEWED THEN EX	19	9.0	141	67.1
REVIEWED ONLY	2	1.0	143	68.1
NOT TAUGHT, NOT	67	31.9	210	100.0

17. TOPIC..SOLVING LINEAR EQUATIONS

ATESLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	181	86.2	181	86.2
REVIEWED THEN EX	25	11.9	206	98.1
REVIEWED ONLY	3	1.4	209	99.5
NOT TAUGHT, NOT	1	0.5	210	100.0

18. EMPHASIZED..INTEGERS BY NUMBER RAY

AMIRAYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	173	82.8	173	82.8
USED	31	14.8	204	97.6
NOT USED	5	2.4	209	100.0

19. IN TEXT..INTEGERS BY NUMBER RAY

AMIRAYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	197	95.6	197	95.6
NOT IN TEXT	9	4.4	206	100.0

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2.FUTURE..INTEGERS BY NUMBER RAY

AMIRAYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	180			
NEGATIVE REASON	30	96.8	30	96.8
	1	3.2	31	100.0

2.HARD..INTEGERS BY NUMBER RAY

AMIRAYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	154			
	57	100.0	57	100.0

2.KNOWN..INTEGERS BY NUMBER RAY

AMIRAYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191			
NEGATIVE REASON	18	90.0	18	90.0
	2	10.0	20	100.0

2.LIKED..INTEGERS BY NUMBER RAY

AMIRAYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

2.RELATED..INTEGERS BY NUMBER RAY

AMIRAYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	172			
	39	100.0	39	100.0

2.SYLLABUS..INTEGERS BY NUMBER RAY

AMIRAYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	195			
	16	100.0	16	100.0

2.UNDERSTAND..INTEGERS BY NUMBER RAY

AMIRAYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	80			
NEGATIVE REASON	129	98.5	129	98.5
	2	1.5	131	100.0

21.TEXT EMPHASIS..INTEGERS BY NUMBER RAY

AMIRAYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	181			
	30	100.0	30	100.0

22.EMPHASIZED..INTEGERS AS SOLUTIONS

AMISOLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	68	32.4	68	32.4
NOT USED	85	40.5	153	72.9
	57	27.1	210	100.0

23.IN TEXT..INTEGERS AS SOLUTIONS

AMISOLT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	11			
NOT IN TEXT	114	57.0	114	57.0
	86	43.0	200	100.0

24.FUTURE..INTEGERS AS SOLUTIONS

AMISOLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	185			
NEGATIVE REASON	20	76.9	20	76.9
	6	23.1	26	100.0

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24.HARD..INTEGERS AS SOLUTIONS

AMISOLH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191			
NEGATIVE REASON	11	55.0	11	55.0
	9	45.0	20	100.0

24.KNOWN..INTEGERS AS SOLUTIONS

AMISOLK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	183			
NEGATIVE REASON	11	39.3	11	39.3
	17	60.7	28	100.0

24.LIKED..INTEGERS AS SOLUTIONS

AMISOLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
NEGATIVE REASON	2	66.7	2	66.7
	1	33.3	3	100.0

24.RELATED..INTEGERS AS SOLUTIONS

AMISOLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	193			
NEGATIVE REASON	16	88.9	16	88.9
	2	11.1	18	100.0

24.SYLLABUS..INTEGERS AS SOLUTIONS

AMISOLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196			
NEGATIVE REASON	13	86.7	13	86.7
	2	13.3	15	100.0

24.UNDERSTAND..INTEGERS AS SOLUTIONS

AMISOLU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	168			
NEGATIVE REASON	26	60.5	26	60.5
	17	39.5	43	100.0

25.TEXT EMPHASIS..INTEGERS AS SOLUTIONS

AMISOLX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	179			
NEGATIVE REASON	16	50.0	16	50.0
	16	50.0	32	100.0

26.EMPHASIZED..INTEGERS BY VECTORS

AMIVECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	50	23.8	50	23.8
NOT USED	38	18.1	88	41.9
	122	58.1	210	100.0

27.IN TEXT..INTEGERS BY VECTORS

AMIVECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	11			
NOT IN TEXT	73	36.5	73	36.5
	127	63.5	200	100.0

28.FUTURE..INTEGERS BY VECTORS

AMIVECF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	203			
NEGATIVE REASON	7	87.5	7	87.5
	1	12.5	8	100.0

28.HARD..INTEGERS BY VECTORS

AMIVECH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	178			
NEGATIVE REASON	16	48.5	16	48.5
	17	51.5	33	100.0

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28.KNOWN..INTEGERS BY VECTORS

AMIVECK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	156	7.3	4	7.3
NEGATIVE REASON	51	92.7	55	100.0

28.LIKED..INTEGERS BY VECTORS

AMIVECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

28.RELATED..INTEGERS BY VECTORS

AMIVECR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	198	7.7	1	7.7
NEGATIVE REASON	12	92.3	13	100.0

28.SYLLABUS..INTEGERS BY VECTORS

AMIVECS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	184	11.1	3	11.1
NEGATIVE REASON	24	88.9	27	100.0

28.UNDERSTAND..INTEGERS BY VECTORS

AMIVECU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	133	47.4	37	47.4
NEGATIVE REASON	41	52.6	78	100.0

29.TEXT EMPHASIS..INTEGERS BY VECTORS

AMIVECX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	173	21.1	8	21.1
NEGATIVE REASON	30	78.9	38	100.0

3.EMPHASIZED..INTEGERS AS EQU CLASSES

AMICLSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	3	2.4	5	2.4
USED	14	6.7	19	9.1
NOT USED	189	90.9	208	100.0

31.IN TEXT..INTEGERS AS EQU CLASSES

AMICLST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	18	5.2	10	5.2
NOT IN TEXT	183	94.8	193	100.0

32.FUTURE..INTEGERS AS EQU CLASSES

AMICLSF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	208	100.0	3	100.0

32.HARD..INTEGERS AS EQU CLASSES

AMICLSH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	174	100.0	37	100.0

32.KNOWN..INTEGERS AS EQU CLASSES

AMICLSK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	125	100.0	86	100.0

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32.LIKED..INTEGERS AS EQU CLASSES

AMICLSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209	100.0	2	100.0

32.RELATED..INTEGERS AS EQU CLASSES

AMICLSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	197	100.0	14	100.0

32.SYLLABUS..INTEGERS AS EQU CLASSES

AMICLSS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	172	100.0	39	100.0

32.UNDERSTAND..INTEGERS AS EQU CLASSES

AMICLSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	122	5.6	5	5.6
NEGATIVE REASON	84	94.4	89	100.0

33.TEXT EMPHASIS..INTEGERS..EQU CLASSES

AMICLSX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	170	100.0	41	100.0

34.EMPHASIZED..INTEGERS BY PHY SITS

AMIPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2	80.4	168	80.4
USED	41	19.6	209	100.0

35.IN TEXT..INTEGERS BY PHY SITS

AMIPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	5	95.6	197	95.6
NOT IN TEXT	197	4.4	206	100.0

36.FUTURE..INTEGERS BY PHY SITS

AMIPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	199	100.0	12	100.0

36.HARD..INTEGERS BY PHY SITS

AMIPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	145	100.0	66	100.0

36.KNOWN..INTEGERS BY PHY SITS

AMIPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	183	96.4	27	96.4
NEGATIVE REASON	27	3.6	28	100.0

36.LIKED..INTEGERS BY PHY SITS

AMIPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	183	96.4	27	96.4
NEGATIVE REASON	27	3.6	28	100.0

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36.RELATED..INTEGERS BY PHY SITS

AMIPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	180			
NEGATIVE REASON	30	96.8	30	96.8
	1	3.2	31	100.0

36.SYLLABUS..INTEGERS BY PHY SITS

AMIPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205			
	6	100.0	6	100.0

36.UNDERSTAND..INTEGERS BY PHY SITS

AMIPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	66			
NEGATIVE REASON	144	99.3	144	99.3
	1	0.7	145	100.0

37.TEXT EMPHASIS..INTEGERS BY PHY SITS

AMIPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	189			
	22	100.0	22	100.0

38.EMPHASIZED..INTEGER ADD BY NUM LINE

AMALINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	115	55.0	115	55.0
NOT USED	72	34.4	187	89.5
	22	10.5	209	100.0

39.IN TEXT..INTEGER ADD BY NUM LINE

AMALINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	6			
NOT IN TEXT	166	81.0	166	81.0
	39	19.0	205	100.0

4.FUTURE..INTEGER ADD BY NUM LINE

AMALINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	195			
NEGATIVE REASON	12	75.0	12	75.0
	4	25.0	16	100.0

4.HARD..INTEGER ADD BY NUM LINE

AMALINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	168			
NEGATIVE REASON	40	93.0	40	93.0
	3	7.0	43	100.0

4.KNOWN..INTEGER ADD BY NUM LINE

AMALINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	189			
NEGATIVE REASON	14	63.6	14	63.6
	8	36.4	22	100.0

4.LIKED..INTEGER ADD BY NUM LINE

AMALINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	210			
	1	100.0	1	100.0

4.RELATED..INTEGER ADD BY NUM LINE

AMALINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200			
NEGATIVE REASON	10	90.9	10	90.9
	1	9.1	11	100.0

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4.SYLLABUS..INTEGER ADD BY NUM LINE

AMALINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201			
	10	100.0	10	100.0

4.UNDERSTAND..INTEGER ADD BY NUM LINE

AMALINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	110			
NEGATIVE REASON	93	92.1	93	92.1
	8	7.9	101	100.0

41.TEXT EMPHASIS..INTEGER ADD..NUM LINE

AMALINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	179			
NEGATIVE REASON	29	90.6	29	90.6
	3	9.4	32	100.0

42.EMPHASIZED..INTEGER ADD BY RULES

AMARULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	159	76.1	159	76.1
NOT USED	38	18.2	197	94.3
	12	5.7	209	100.0

43.IN TEXT..INTEGER ADD BY RULES

AMARULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	9			
NOT IN TEXT	194	96.0	194	96.0
	8	4.0	202	100.0

44.FUTURE..INTEGER ADD BY RULES

AMARULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	157			
NEGATIVE REASON	53	98.1	53	98.1
	1	1.9	54	100.0

44.HARD..INTEGER ADD BY RULES

AMARULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	167			
	44	100.0	44	100.0

44.KNOWN..INTEGER ADD BY RULES

AMARULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	187			
NEGATIVE REASON	19	79.2	19	79.2
	5	20.8	24	100.0

44.LIKED..INTEGER ADD BY RULES

AMARULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
NEGATIVE REASON	4	80.0	4	80.0
	1	20.0	5	100.0

44.RELATED..INTEGER ADD BY RULES

AMARULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201			
	10	100.0	10	100.0

44.SYLLABUS..INTEGER ADD BY RULES

AMARULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196			
	15	100.0	15	100.0

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44. UNDERSTAND..INTEGER ADD BY RULES

AMARULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	143	89.7	61	89.7
NEGATIVE REASON	7	10.3	68	100.0

45. TEXT EMPHASIS..INTEGER ADD BY RULES

AMARULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	154	100.0	57	100.0

46. EMPHASIZED..INTEGER ADD BY PHY SITS

AMAPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	89	42.6	89	42.6
NOT USED	98	46.9	187	89.5
	22	10.5	209	100.0

47. IN TEXT..INTEGER ADD BY PHY SITS

AMAPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	10			
NOT IN TEXT	148	73.6	148	73.6
	53	26.4	201	100.0

48. FUTURE..INTEGER ADD BY PHY SITS

AMAPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200			
NEGATIVE REASON	10	90.9	10	90.9
	1	9.1	11	100.0

48. HARD..INTEGER ADD BY PHY SITS

AMAPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	181			
NEGATIVE REASON	28	93.3	28	93.3
	2	6.7	30	100.0

48. KNOWN..INTEGER ADD BY PHY SITS

AMAPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200			
NEGATIVE REASON	5	45.5	5	45.5
	6	54.5	11	100.0

48. LIKED..INTEGER ADD BY PHY SITS

AMAPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	202			
	9	100.0	9	100.0

48. RELATED..INTEGER ADD BY PHY SITS

AMAPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	203			
NEGATIVE REASON	7	87.5	7	87.5
	1	12.5	8	100.0

48. SYLLABUS..INTEGER ADD BY PHY SITS

AMAPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205			
	6	100.0	6	100.0

48. UNDERSTAND..INTEGER ADD BY PHY SITS

AMAPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	143			
NEGATIVE REASON	64	94.1	64	94.1
	4	5.9	68	100.0

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49. TEXT EMPHASIS..INTEGER ADD..PHY SITS

AMAPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	189			
NEGATIVE REASON	14	63.6	14	63.6
	8	36.4	22	100.0

5. EMPHASIZED..INTEGER SUB BY NUM LINE

AMSLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	3			
USED	109	52.4	109	52.4
NOT USED	59	28.4	168	80.8
	40	19.2	208	100.0

51. IN TEXT..INTEGER SUB BY NUM LINE

AMSLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	12			
NOT IN TEXT	149	74.9	149	74.9
	50	25.1	199	100.0

52. FUTURE..INTEGER SUB BY NUM LINE

AMSLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196			
NEGATIVE REASON	12	80.0	12	80.0
	3	20.0	15	100.0

52. HARD..INTEGER SUB BY NUM LINE

AMSLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	170			
NEGATIVE REASON	35	85.4	35	85.4
	6	14.6	41	100.0

52. KNOWN..INTEGER SUB BY NUM LINE

AMSLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191			
NEGATIVE REASON	9	45.0	9	45.0
	11	55.0	20	100.0

52. LIKED..INTEGER SUB BY NUM LINE

AMSLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

52. RELATED..INTEGER SUB BY NUM LINE

AMSLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201			
NEGATIVE REASON	9	90.0	9	90.0
	1	10.0	10	100.0

52. SYLLABUS..INTEGER SUB BY NUM LINE

AMSLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	199			
NEGATIVE REASON	11	91.7	11	91.7
	1	8.3	12	100.0

52. UNDERSTAND..INTEGER SUB BY NUM LINE

AMSLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	109			
NEGATIVE REASON	83	81.4	83	81.4
	19	18.6	102	100.0

53. TEXT EMPHASIS..INTEGER SUB..NUM LINE

AMSLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	178			
NEGATIVE REASON	26	78.8	26	78.8
	7	21.2	33	100.0

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54.EMPHASIZED..INTEGER SUB AS INV ADD

AMSINVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	71	34.1	71	34.1
USED	77	37.0	148	71.2
NOT USED	60	28.8	208	100.0

55.IN TEXT..INTEGER SUB AS INV ADD

AMSINVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	11			
	129	64.5	129	64.5
NOT IN TEXT	71	35.5	200	100.0

56.FUTURE..INTEGER SUB AS INV ADD

AMSINVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	193			
	15	83.3	15	83.3
NEGATIVE REASON	3	16.7	18	100.0

56.HARD..INTEGER SUB AS INV ADD

AMSINVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	178			
	17	51.5	17	51.5
NEGATIVE REASON	16	48.5	33	100.0

56.KNOWN..INTEGER SUB AS INV ADD

AMSINVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	192			
	5	26.3	5	26.3
NEGATIVE REASON	14	73.7	19	100.0

56.LIKED..INTEGER SUB AS INV ADD

AMSINVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	2	66.7	2	66.7
NEGATIVE REASON	1	33.3	3	100.0

56.RELATED..INTEGER SUB AS INV ADD

AMSINVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	202			
	9	100.0	9	100.0

56.SYLLABUS..INTEGER SUB AS INV ADD

AMSINVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	198			
	5	38.5	5	38.5
NEGATIVE REASON	8	61.5	13	100.0

56.UNDERSTAND..INTEGER SUB AS INV ADD

AMSINVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	148			
	31	49.2	31	49.2
NEGATIVE REASON	32	50.8	63	100.0

57.TEXT EMPHASIS..INTEGER SUB AS INV ADD

AMSINVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	176			
	20	57.1	20	57.1
NEGATIVE REASON	15	42.9	35	100.0

58.EMPHASIZED..INTEGER SUB BY RULES

AMSRULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	3			
USED	166	79.8	166	79.8
NOT USED	31	14.9	197	94.7
	11	5.3	208	100.0

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59.IN TEXT..INTEGER SUB BY RULES

AMSRULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	10			
	187	93.0	187	93.0
NOT IN TEXT	14	7.0	201	100.0

6.FUTURE..INTEGER SUB BY RULES

AMSRULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	166			
	44	97.8	44	97.8
NEGATIVE REASON	1	2.2	45	100.0

6.HARD..INTEGER SUB BY RULES

AMSRULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	160			
	51	100.0	51	100.0

6.KNOWN..INTEGER SUB BY RULES

AMSRULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	194			
	15	88.2	15	88.2
NEGATIVE REASON	2	11.8	17	100.0

6.LIKED..INTEGER SUB BY RULES

AMSRULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206			
	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

6.RELATED..INTEGER SUB BY RULES

AMSRULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	205			
	6	100.0	6	100.0

6.SYLLABUS..INTEGER SUB BY RULES

AMSRULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191			
	13	65.0	13	65.0
NEGATIVE REASON	7	35.0	20	100.0

6.UNDERSTAND..INTEGER SUB BY RULES

AMSRULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	126			
	80	94.1	80	94.1
NEGATIVE REASON	5	5.9	85	100.0

61.TEXT EMPHASIS..INTEGER SUB BY RULES

AMSRULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	156			
	52	94.5	52	94.5
NEGATIVE REASON	3	5.5	55	100.0

62.EMPHASIZED..INTEGER SUB BY UNITS

AMSUNSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	4			
USED	34	16.4	34	16.4
	41	19.8	75	36.2
NOT USED	132	63.8	207	100.0

63.IN TEXT..INTEGER SUB BY UNITS

AMSUNST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	15			
	53	27.0	53	27.0
NOT IN TEXT	143	73.0	196	100.0

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64.FUTURE..INTEGER SUB BY UNITS

AMSUNSF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
	1	25.0	1	25.0
NEGATIVE REASON	3	75.0	4	100.0

64.HARD..INTEGER SUB BY UNITS

AMSUNSH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	170			
	6	14.6	6	14.6
NEGATIVE REASON	35	85.4	41	100.0

64.KNOWN..INTEGER SUB BY UNITS

AMSUNSK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	170			
	3	7.3	3	7.3
NEGATIVE REASON	38	92.7	41	100.0

64.LIKED..INTEGER SUB BY UNITS

AMSUNSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
	2	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

64.RELATED..INTEGER SUB BY UNITS

AMSUNSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
	1	25.0	1	25.0
NEGATIVE REASON	3	75.0	4	100.0

64.SYLLABUS..INTEGER SUB BY UNITS

AMSUNSS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	199			
	2	16.7	2	16.7
NEGATIVE REASON	10	83.3	12	100.0

64.UNDERSTAND..INTEGER SUB BY UNITS

AMSUNSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	135			
	23	30.3	23	30.3
NEGATIVE REASON	53	69.7	76	100.0

65.TEXT EMPHASIS..INTEGER SUB BY UNITS

AMSUNSX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	172			
	4	10.3	4	10.3
NEGATIVE REASON	35	89.7	39	100.0

66.EMPHASIZED..INTEGER SUB BY WHAT ADD

AMSADDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	4			
	24	11.6	24	11.6
USED	56	27.1	80	38.6
NOT USED	127	61.4	207	100.0

67.IN TEXT..INTEGER SUB BY WHAT ADD

AMSADDT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	17			
	63	32.5	63	32.5
NOT IN TEXT	131	67.5	194	100.0

68.FUTURE..INTEGER SUB BY WHAT ADD

AMSADDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201			
	6	60.0	6	60.0
NEGATIVE REASON	4	40.0	10	100.0

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68.HARD..INTEGER SUB BY WHAT ADD

AMSADDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	176			
	4	11.4	4	11.4
NEGATIVE REASON	31	88.6	35	100.0

68.KNOWN..INTEGER SUB BY WHAT ADD

AMSADDK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	171			
	2	5.0	2	5.0
NEGATIVE REASON	38	95.0	40	100.0

68.LIKED..INTEGER SUB BY WHAT ADD

AMSADDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	208			
	1	33.3	1	33.3
NEGATIVE REASON	2	66.7	3	100.0

68.RELATED..INTEGER SUB BY WHAT ADD

AMSADDR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
	2	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

68.SYLLABUS..INTEGER SUB BY WHAT ADD

AMSADDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	197			
	3	21.4	3	21.4
NEGATIVE REASON	11	78.6	14	100.0

68.UNDERSTAND..INTEGER SUB BY WHAT ADD

AMSADDU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	144			
	9	13.4	9	13.4
NEGATIVE REASON	58	86.6	67	100.0

69.TEXT EMPHASIS..INTEGER SUB..WHAT ADD

AMSADDX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	179			
	5	15.6	5	15.6
NEGATIVE REASON	27	84.4	32	100.0

7.PRODUCT CONCEPT..REPEATED ADDITION

AMPADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
	81	38.8	81	38.8
USED	87	41.6	168	80.4
NOT USED	41	19.6	209	100.0

71.PRODUCT CONCEPT..EXTEND PROPERTIES

AMPEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
	18	8.6	18	8.6
USED	33	15.8	51	24.4
NOT USED	158	75.6	209	100.0

72.PRODUCT CONCEPT..PHYSICAL SITUATIONS

AMPPHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	4			
	70	33.8	70	33.8
USED	90	43.5	160	77.3
NOT USED	47	22.7	207	100.0

73.PRODUCT CONCEPT..PATTERNS

AMPPAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
	139	66.5	139	66.5
USED	48	23.0	187	89.5
NOT USED	22	10.5	209	100.0

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74.PRODUCT CONCEPT..JUST RULES

AMPRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	4	51.7	4	51.7
USED	59	28.5	107	80.2
NOT USED	41	19.8	207	100.0

75.EMPHASIZED..LEQ SOLVE BY EQU PROPS

AMEEQUE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1	94.3	1	94.3
USED	198	5.7	199	100.0

76.IN TEXT..LEQ SOLVE BY EQU PROPS

AMEEQUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	8	100.0	8	100.0

77.FUTURE..LEQ SOLVE BY EQU PROPS

AMEEQUF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	146	100.0	146	100.0

77.HARD..LEQ SOLVE BY EQU PROPS

AMEEQUH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	145	100.0	145	100.0

77.KNOWN..LEQ SOLVE BY EQU PROPS

AMEEQUK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	188	95.7	188	95.7
NEGATIVE REASON	22	4.3	210	100.0

77.LIKED..LEQ SOLVE BY EQU PROPS

AMEEQUJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207	100.0	207	100.0

77.RELATED..LEQ SOLVE BY EQU PROPS

AMEEQUK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	194	100.0	194	100.0

77.SYLLABUS..LEQ SOLVE BY EQU PROPS

AMEEQUK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	174	81.1	174	81.1
NEGATIVE REASON	30	18.9	204	100.0

77.UNDERSTAND..LEQ SOLVE BY EQU PROPS

AMEEQUU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	82	100.0	82	100.0

78.TEXT EMPHASIS..LEQ SOLVE BY EQU PROPS

AMEEQUX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	141	95.7	141	95.7
NEGATIVE REASON	67	4.3	208	100.0

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79.EMPHASIZED..LEQ SOLVE BY INV OPS

AMEINVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1	16.7	1	16.7
USED	35	31.4	36	48.1
NOT USED	109	51.9	245	100.0

8.IN TEXT..LEQ SOLVE BY INV OPS

AMEINVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	17	30.4	17	30.4
NOT IN TEXT	59	69.6	76	100.0

81.FUTURE..LEQ SOLVE BY INV OPS

AMEINVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	201	80.0	201	80.0
NEGATIVE REASON	8	20.0	209	100.0

81.HARD..LEQ SOLVE BY INV OPS

AMEINVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	185	19.2	185	19.2
NEGATIVE REASON	5	80.8	190	100.0

81.KNOWN..LEQ SOLVE BY INV OPS

AMEINVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	172	7.7	172	7.7
NEGATIVE REASON	3	92.3	175	100.0

81.LIKED..LEQ SOLVE BY INV OPS

AMEINVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	209	100.0	209	100.0

81.RELATED..LEQ SOLVE BY INV OPS

AMEINVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	204	28.6	204	28.6
NEGATIVE REASON	5	71.4	209	100.0

81.SYLLABUS..LEQ SOLVE BY INV OPS

AMEINVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	192	10.5	192	10.5
NEGATIVE REASON	2	89.5	194	100.0

81.UNDERSTAND..LEQ SOLVE BY INV OPS

AMEINVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	159	23.1	159	23.1
NEGATIVE REASON	12	76.9	171	100.0

82.TEXT EMPHASIS..LEQ SOLVE BY INV OPS

AMEINVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	174	21.6	174	21.6
NEGATIVE REASON	8	78.4	182	100.0

83.EMPHASIZED..LEQ SOLVE BY ARITH REASON

AMEARTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1	5.7	1	5.7
USED	12	43.3	13	49.0
NOT USED	91	51.0	104	100.0

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84. IN TEXT..LEQ SOLVE BY ARITH REASON

AMEARTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	13			
NOT IN TEXT	28	14.1	28	14.1
	170	85.9	198	100.0

85. FUTURE..LEQ SOLVE BY ARITH REASON

AMEARTF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	176			
NEGATIVE REASON	1	2.9	1	2.9
	34	97.1	35	100.0

85. HARD..LEQ SOLVE BY ARITH REASON

AMEARTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	200			
NEGATIVE REASON	1	9.1	1	9.1
	10	90.9	11	100.0

85. KNOWN..LEQ SOLVE BY ARITH REASON

AMEARTK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	175			
NEGATIVE REASON	1	2.8	1	2.8
	35	97.2	36	100.0

85. LIKED..LEQ SOLVE BY ARITH REASON

AMEARTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	211			

85. RELATED..LEQ SOLVE BY ARITH REASON

AMEARTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
NEGATIVE REASON	3	75.0	3	75.0
	1	25.0	4	100.0

85. SYLLABUS..LEQ SOLVE BY ARITH REASON

AMEARTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	198			
NEGATIVE REASON	1	7.7	1	7.7
	12	92.3	13	100.0

85. UNDERSTAND..LEQ SOLVE BY ARITH REASON

AMEARTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	185			
NEGATIVE REASON	4	15.4	4	15.4
	22	84.6	26	100.0

86. TEXT EMPHASIS..LEQ SOLVE..ARITH REASON

AMEARTX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	182			
NEGATIVE REASON	2	6.9	2	6.9
	27	93.1	29	100.0

87. EMPHASIZED..LEQ SOLVE BY TRIAL ERROR

AMETAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	9	4.3	9	4.3
NOT USED	56	26.7	65	31.0
	145	69.0	210	100.0

88. IN TEXT..LEQ SOLVE BY TRIAL ERROR

AMETAET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	26			
NOT IN TEXT	36	19.5	36	19.5
	149	80.5	185	100.0

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89. FUTURE..LEQ SOLVE BY TRIAL ERROR

AMETAEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	165			
NEGATIVE REASON	2	4.3	2	4.3
	44	95.7	46	100.0

89. HARD..LEQ SOLVE BY TRIAL ERROR

AMETAEH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	196			
NEGATIVE REASON	1	6.7	1	6.7
	14	93.3	15	100.0

89. KNOWN..LEQ SOLVE BY TRIAL ERROR

AMETAEK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	170			
NEGATIVE REASON	1	2.4	1	2.4
	40	97.6	41	100.0

89. LIKED..LEQ SOLVE BY TRIAL ERROR

AMETAEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209			
NEGATIVE REASON	1	50.0	1	50.0
	1	50.0	2	100.0

89. RELATED..LEQ SOLVE BY TRIAL ERROR

AMETAER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	207			
NEGATIVE REASON	2	50.0	2	50.0
	2	50.0	4	100.0

89. SYLLABUS..LEQ SOLVE BY TRIAL ERROR

AMETAES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEGATIVE REASON	198			
	13	100.0	13	100.0

89. UNDERSTAND..LEQ SOLVE BY TRIAL ERROR

AMETAEU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	171			
NEGATIVE REASON	7	17.5	7	17.5
	33	82.5	40	100.0

9. TEXT EMPHASIS..LEQ SOLVE..TRIAL ERROR

AMETAEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	177			
NEGATIVE REASON	3	8.8	3	8.8
	31	91.2	34	100.0

91. EMPHASIZED..LEQ SOLVE BY RULES

AMERULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	185	88.1	185	88.1
NOT USED	18	8.6	203	96.7
	7	3.3	210	100.0

92. IN TEXT..LEQ SOLVE BY RULES

AMERULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
IN TEXT	10			
NOT IN TEXT	189	94.0	189	94.0
	12	6.0	201	100.0

93. FUTURE..LEQ SOLVE BY RULES

AMERULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	134			
	77	100.0	77	100.0

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93.HARD..LEQ SOLVE BY RULES

AMERULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	146 65	100.0	65	100.0

93.KNOWN..LEQ SOLVE BY RULES

AMERULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	191 16	80.0	16	80.0
NEGATIVE REASON	4	20.0	20	100.0

93.LIKED..LEQ SOLVE BY RULES

AMERULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	206 5	100.0	5	100.0

93.RELATED..LEQ SOLVE BY RULES

AMERULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	209 2	100.0	2	100.0

93.SYLLABUS..LEQ SOLVE BY RULES

AMERULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	182 29	100.0	29	100.0

93.UNDERSTAND..LEQ SOLVE BY RULES

AMERULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	119 91	98.9	91	98.9
NEGATIVE REASON	1	1.1	92	100.0

94.TEXT EMPHASIS..LEQ SOLVE BY RULES

AMERULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
POSITIVE REASON	159 52	100.0	52	100.0

95.FORMULAS..EXPLAIN MEANING OF TERMS

AMFTERM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	104	49.5	104	49.5
NOT USED	86	41.0	190	90.5
	20	9.5	210	100.0

96.FORMULAS..INSPECT GRAPHS FIND FORMULA

AMFGRPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	99	47.4	99	47.4
NOT USED	67	32.1	166	79.4
	43	20.6	209	100.0

97.FORMULAS..GIVE DATA DEVELOP FORMULA

AMFDDEV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	103	49.3	103	49.3
NOT USED	76	36.4	179	85.6
	30	14.4	209	100.0

98.FORMULAS..STUDENTS COLLECT DATA

AMFDCOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	3			
USED	22	10.6	22	10.6
NOT USED	52	25.0	74	35.6
	134	64.4	208	100.0

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99.FORMULAS..STUDENTS CREATE NEW FORMULA

AMFNEWF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	71	34.0	71	34.0
NOT USED	83	39.7	154	73.7
	55	26.3	209	100.0

1.PROBLEM TYPE..AGE

AAAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	1			
USED	71	33.8	71	33.8
NOT USED	115	54.8	186	88.6
	24	11.4	210	100.0

11.PROBLEM TYPE..DIGIT

AADIGIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	110	52.6	110	52.6
NOT USED	94	45.0	204	97.6
	5	2.4	209	100.0

12.PROBLEM TYPE..MIXTURE

AAMIX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	51	24.4	51	24.4
NOT USED	100	47.8	151	72.2
	58	27.8	209	100.0

13.PROBLEM TYPE..PERCENT

AAPCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	79	37.8	79	37.8
NOT USED	96	45.9	175	83.7
	34	16.3	209	100.0

14.PROBLEM TYPE..DISTANCE RATE TIME

AADRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	163	78.0	163	78.0
NOT USED	43	20.6	206	98.6
	3	1.4	209	100.0

15.PROBLEM TYPE..INTEREST

AAINST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	20	9.6	20	9.6
NOT USED	100	47.8	120	57.4
	89	42.6	209	100.0

16.PROBLEM TYPE..AREA VOLUME

AAAREAV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	114	54.5	114	54.5
NOT USED	72	34.4	186	89.0
	23	11.0	209	100.0

17.PROBLEM TYPE..PHYSICAL NATURAL SCI

AAPHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	9	4.3	9	4.3
NOT USED	49	23.4	58	27.8
	151	72.2	209	100.0

18.PROBLEM TYPE..ENERGY OR ECOLOGY

AAENRGY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	2			
USED	4	1.9	4	1.9
NOT USED	24	11.5	28	13.4
	181	86.6	209	100.0

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19. PROBLEM SOURCE..STUDENT TEXTBOOK

AUTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	184	88.0	184	88.0
RARELY OR NEVER	21	10.0	205	98.1
	4	1.9	209	100.0

11. PROBLEM SOURCE..SUPPLEMENTARY BOOKS

AUSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	2			
OCCASIONALLY	98	46.9	98	46.9
RARELY OR NEVER	94	45.0	192	91.9
	17	8.1	209	100.0

111. PROBLEM SOURCE..LOCAL MATERIALS

AULOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	5			
OCCASIONALLY	59	28.6	59	28.6
RARELY OR NEVER	117	56.8	176	85.4
	30	14.6	206	100.0

112. PROBLEM SOURCE..GUIDE OR SYLLABUS

AUGUIDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	5			
OCCASIONALLY	30	14.6	30	14.6
RARELY OR NEVER	92	44.7	122	59.2
	84	40.8	206	100.0

113. PROBLEM SOURCE..PROF ASSN PUBLICATNS

AUPPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	4			
OCCASIONALLY	5	3.9	8	3.9
RARELY OR NEVER	51	24.6	59	28.5
	148	71.5	207	100.0

114. PROBLEM SOURCE..STUDENT SUGGESTIONS

AUSTDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6			
OCCASIONALLY	2	1.0	2	1.0
RARELY OR NEVER	71	34.6	73	35.6
	132	64.4	205	100.0

115. PROBLEM SOURCE..REAL WORLD

AUREALW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	6			
OCCASIONALLY	81	39.5	86	42.0
RARELY OR NEVER	119	58.0	205	100.0

116. AVERAGE LENGTH OF MATH CLASS MINUTES

APSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
40	1			
42	4	1.9	4	1.9
45	1	0.5	5	2.4
46	101	48.1	106	50.5
47	1	0.5	107	51.0
48	4	1.9	111	52.9
49	12	5.7	123	58.6
50	87	41.4	210	100.0

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117. PERIODS..TOTAL INTEGER & INTEGER OPS

APITOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
8	2	1.0	2	1.0
9	1	0.5	3	1.4
10	2	1.0	5	2.4
12	4	1.9	9	4.3
14	2	1.0	11	5.3
15	12	5.7	23	11.0
16	14	6.7	37	17.7
17	14	6.7	51	24.4
18	24	11.5	75	35.9
19	13	6.2	88	42.1
20	34	16.3	122	58.4
21	16	7.7	138	66.0
22	19	9.1	157	75.1
23	7	3.3	164	78.5
24	12	5.7	176	84.2
25	14	6.7	190	90.9
26	4	1.9	194	92.8
27	2	1.0	196	93.8
28	4	1.9	200	95.7
29	1	0.5	201	96.2
30	7	3.3	208	99.5
32	1	0.5	209	100.0

118. PERIODS..POS AND NEG INTEGERS

APIPN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	4			
2	43	20.8	43	20.8
3	71	34.3	114	55.1
4	50	24.2	164	79.2
5	26	12.6	190	91.8
6	14	6.8	204	98.6
	3	1.4	207	100.0

119. PERIODS..ADDITION OF INTEGERS

APIADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	3			
2	9	4.3	9	4.3
3	42	20.2	51	24.5
4	90	43.3	141	67.8
5	53	25.5	194	93.3
6	12	5.8	206	99.0
7	1	0.5	207	99.5
	1	0.5	208	100.0

12. PERIODS..SUBTRACTION OF INTEGERS

APISUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	3			
2	16	7.7	16	7.7
3	66	31.7	82	39.4
4	79	38.0	161	77.4
5	39	18.8	200	96.2
	8	3.8	208	100.0

121. PERIODS..MULTIPLICATION OF INTEGERS

APIMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	3			
2	13	6.3	13	6.3
3	82	39.4	95	45.7
4	79	38.0	174	83.7
5	28	13.5	202	97.1
6	4	1.9	206	99.0
8	1	0.5	207	99.5
	1	0.5	208	100.0

122. PERIODS..DIVISION OF INTEGERS

APIDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	3			
2	22	10.6	22	10.6
3	110	52.9	132	63.5
4	59	28.4	191	91.8
6	16	7.7	207	99.5
	1	0.5	208	100.0

123. PERIODS..PROPS OF INTEGER SET

APISTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	3			
2	73	35.1	73	35.1
3	96	46.2	169	81.2
4	22	10.6	191	91.8
6	14	6.7	205	98.6
7	1	0.5	206	99.0
9	1	0.5	207	99.5
	1	0.5	208	100.0

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124.PERIODS..ORDER RELATIONS OF INTEGERS

APIORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	3.9	4	3.9
1	130	62.8	138	66.7
2	56	27.1	194	93.7
3	12	5.8	206	99.5
4	1	0.5	207	100.0

125.PERIODS..INTEGER APPLICATIONS

APIAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	1.9	4	1.9
1	32	15.5	36	17.4
2	70	33.8	106	51.2
3	45	21.7	151	72.9
4	28	13.5	179	86.5
5	14	6.8	193	93.2
6	6	2.9	199	96.1
7	6	2.9	205	99.0
9	1	0.5	206	99.5
12	1	0.5	207	100.0

126.PERIODS..TOTAL FORMULAS AND EQUATNS

APETOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
5	3	0.5	3	0.5
8	1	0.5	4	1.0
9	1	0.5	5	1.4
10	3	1.4	8	2.9
11	2	1.0	10	3.8
12	5	2.4	15	6.2
13	3	1.4	18	7.7
14	3	1.4	21	9.1
15	8	3.8	29	13.0
16	4	1.9	33	14.9
17	5	2.4	38	17.3
18	12	5.8	50	23.1
19	4	1.9	54	25.0
20	21	10.1	75	35.1
21	3	1.4	78	36.5
22	4	1.9	82	38.5
23	6	2.9	88	41.3
24	17	8.2	105	49.5
25	11	5.3	116	54.8
26	6	2.9	122	57.7
27	5	2.4	127	60.1
28	8	3.8	135	63.9
29	6	2.9	141	66.8
30	20	9.6	161	76.4
31	5	2.4	166	77.9
32	5	2.4	171	80.3
33	5	2.4	176	82.7
34	2	1.0	178	83.7
35	7	3.4	185	87.0
36	11	5.3	196	92.3
37	2	1.0	198	93.3
38	1	0.5	199	93.7
39	5	2.4	204	96.2
40	3	1.4	207	97.6
42	1	0.5	208	98.1
43	1	0.5	209	98.6
44	1	0.5	210	99.0
47	1	0.5	211	99.5
48	1	0.5	212	100.0

127.PERIODS..EVLUATION OF FORMULAS

APEEVAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5	0.5	5	0.5
1	38	18.4	43	18.9
2	80	38.8	123	57.8
3	42	20.4	165	78.2
4	26	12.6	191	90.8
5	6	2.9	197	93.7
6	5	2.4	202	96.1
7	2	1.0	204	97.1
8	3	1.5	207	98.5
9	2	1.0	209	99.5
17	1	0.5	210	100.0

128.PERIODS..DERIVING FORMULAS EQUATNS

APERDERV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	4.8	4	4.8
10	22	10.6	26	15.5
2	51	24.6	77	40.1
3	44	21.3	121	61.4
4	35	16.9	156	78.3
5	23	11.1	179	89.4
6	11	5.3	190	94.7
7	4	1.9	194	96.6
8	4	1.9	198	98.6
9	2	1.0	200	99.5
10	1	0.5	201	100.0

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129.PERIODS..APPLICATIONS OF FORMULAS

APEAPPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5	2.4	5	2.4
1	16	7.8	21	10.2
2	56	27.2	77	37.4
3	45	21.8	122	59.2
4	36	17.5	158	76.7
5	22	10.7	180	87.4
6	18	8.7	198	96.1
7	5	2.4	203	98.5
8	2	1.0	205	99.5
9	1	0.5	206	100.0

130.PERIODS..SOLVING LITERAL EQUATIONS

APESLIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5	31.6	5	31.6
1	43	20.9	48	52.4
2	40	19.4	88	71.8
3	30	14.6	118	86.4
4	14	6.8	132	93.2
5	8	3.9	140	97.1
6	4	1.9	144	99.0
8	2	1.0	146	100.0

131.PERIODS..SOLVING LINEAR EQUATIONS

APESLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	5	0.5	5	0.5
1	1	0.5	6	1.0
2	8	3.9	14	4.9
3	15	7.3	29	12.1
4	33	16.0	62	28.2
5	29	14.1	91	42.2
6	34	16.5	125	58.7
7	24	11.7	149	70.4
8	28	13.6	177	84.0
9	14	6.8	191	90.8
10	3	1.5	194	92.6
12	3	1.5	197	94.0
14	1	0.5	198	94.5
15	1	0.5	199	95.0

132.PERIODS..APPLICATIONS OF EQUATIONS

APEAPPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4	0.5	4	0.5
1	6	2.9	10	3.4
2	24	11.6	34	15.0
3	39	18.8	73	33.8
4	46	22.2	119	56.0
5	28	13.5	147	69.6
6	29	14.0	176	83.6
7	10	4.8	186	88.4
8	13	6.3	199	94.7
9	8	3.9	207	98.6
10	3	1.4	210	100.0

133.OPINION..NUMBER LINE ADDS TO INTEGER

AOLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	103	49.0	103	49.0
AGREE	91	43.3	194	92.4
UNDECIDED	13	6.2	207	98.6
DISAGREE	3	1.4	210	100.0

134.OPINION..JUSTIFY RULE MULTIPLY INTS

AORULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	2	29.7	2	29.7
AGREE	62	54.5	64	84.2
UNDECIDED	114	14.8	176	99.0
DISAGREE	31	1.0	207	100.0

135.OPINION..PRACTICE OPS DIRECTED NUMS

AODNUMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	5	67.5	5	67.5
AGREE	139	29.6	144	97.1
UNDECIDED	61	1.9	205	99.0
DISAGREE	4	1.0	209	100.0

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136.OPINION..IMPORT UNDERSTAND INT LAWS

AOILAWS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	12.5	3	12.5
AGREE	135	64.9	161	77.4
UNDECIDED	44	21.2	205	98.6
DISAGREE	3	1.4	208	100.0

137.OPINION..KNOW WHY INT OP RULES WORK

AOIWHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	9.0	1	9.0
AGREE	19	41.0	105	50.0
UNDECIDED	92	43.8	197	93.8
DISAGREE	13	6.2	210	100.0

138.OPINION..WHY IMPORT INT STRUC PROPS

AOISTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	6	2.9	6	2.9
AGREE	67	31.9	73	34.8
UNDECIDED	104	49.5	177	84.3
DISAGREE	33	15.7	210	100.0

139.OPINION..SLOW USE LETTER UNKNOWNNS

AOLETR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	2	19.1	2	19.1
AGREE	40	58.9	163	78.0
UNDECIDED	123	10.5	185	88.5
DISAGREE	22	10.5	207	99.0
STRONGLY DISAGRE	2	1.0	209	100.0

14.OPINION..LEQ WITH FRACTN SOL HARDER

AOSOLUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	23.8	1	23.8
AGREE	50	61.4	51	85.2
UNDECIDED	129	11.0	202	96.2
DISAGREE	23	3.3	209	99.5
STRONGLY DISAGRE	7	0.5	210	100.0

141.OPINION..JUSTIFY EQUATION SOL STEP

AOESTEP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	37.1	1	37.1
AGREE	78	55.2	194	92.4
UNDECIDED	116	6.2	207	98.6
DISAGREE	13	1.0	209	99.5
STRONGLY DISAGRE	2	0.5	210	100.0

142.OPINION..SOLVE EQUATIONS TRIAL ERROR

AOETAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	6.2	1	6.2
AGREE	13	43.3	14	49.5
UNDECIDED	79	37.6	183	87.1
DISAGREE	25	11.9	208	99.0
STRONGLY DISAGRE	2	1.0	210	100.0

143.OPINION..SOLUTION SET NOTION HELPS

AOSSET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	2	4.8	2	4.8
AGREE	10	39.2	12	44.0
UNDECIDED	82	43.1	182	87.1
DISAGREE	90	12.4	208	99.5
STRONGLY DISAGRE	26	0.5	209	100.0

144.OPINION..WORD PROBS LINEAR EQS HARD

AOEWP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	13.0	3	13.0
AGREE	27	62.0	156	75.0
UNDECIDED	129	14.4	186	89.4
DISAGREE	30	10.1	207	99.5
STRONGLY DISAGRE	21	0.5	208	100.0

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145.OPINION..HARD TRANSLATE WORDS MATH

AOTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	18.1	1	18.1
AGREE	38	66.2	177	84.3
UNDECIDED	139	11.0	200	95.2
DISAGREE	23	4.3	209	99.5
STRONGLY DISAGRE	9	0.5	210	100.0

146.OPINION..APPS WITH LINEAR EQS HARD

AOEAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	15.2	1	15.2
AGREE	32	54.8	147	70.0
UNDECIDED	115	21.9	193	91.9
DISAGREE	46	7.6	209	99.5
STRONGLY DISAGRE	16	0.5	210	100.0

147.OPINION..FIRST IDENTIFY TYPE PROBLEM

AOPTYPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	18.1	1	18.1
AGREE	38	54.8	153	72.9
UNDECIDED	115	25.2	206	98.1
DISAGREE	53	1.9	210	100.0

148.OPINION..BAD TO JUSTIFY STEPS EQ SOL

AOEJUST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	5.7	1	5.7
AGREE	12	10.0	33	15.7
UNDECIDED	21	25.7	87	41.4
DISAGREE	54	51.9	196	93.3
STRONGLY DISAGRE	109	6.7	210	100.0

149.OPINION..EQUIV EQUATN NOTION USEFUL

AOEQUIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	4	5.8	4	5.8
AGREE	12	48.3	112	54.1
UNDECIDED	100	41.1	197	95.2
DISAGREE	85	4.8	207	100.0

15.OPINION..FORMULA SHOULD BE MEMORIZED

AOFMEM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	1.4	3	1.4
AGREE	37	17.9	40	19.2
UNDECIDED	76	36.5	116	55.8
DISAGREE	63	30.3	179	86.1
STRONGLY DISAGRE	29	13.9	208	100.0

151.OPINION..FORMULAS FOR STORY PROBLEMS

AOFORSP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	3	6.3	3	6.3
AGREE	13	60.6	139	66.8
UNDECIDED	126	23.1	187	89.9
DISAGREE	48	9.6	207	99.5
STRONGLY DISAGRE	20	0.5	208	100.0

152.OPINION..FORMULAS FOR VOLUMES ETC

AOFORGF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	1.4	1	1.4
AGREE	3	11.9	28	13.3
UNDECIDED	25	49.5	132	62.9
DISAGREE	104	31.0	197	93.8
STRONGLY DISAGRE	65	6.2	210	100.0

153.OPINION..FORMULAS IN PRACTICAL APPS

AOFORPR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY AGREE	1	7.1	1	7.1
AGREE	15	52.9	126	60.0
UNDECIDED	111	33.3	196	93.3
DISAGREE	70	6.7	210	100.0

Classroom Process Questionnaire

GENERAL

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1A.OBJECTIVE..LOGICAL STRUCTURE OF MAT

COBJLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	4			
EQUAL EMPHASIS	27	13.0	27	13.0
LESS EMPHASIS	123	59.4	150	72.5
	57	27.5	207	100.0

1B.OBJECTIVE..THE NATURE OF PROOF

COBJPRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	6			
EQUAL EMPHASIS	20	9.8	20	9.8
LESS EMPHASIS	61	29.8	81	39.5
	124	60.5	205	100.0

1C.OBJECTIVE..INTEREST IN MATHEMATICS

COBJINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	3			
EQUAL EMPHASIS	136	65.4	136	65.4
LESS EMPHASIS	60	28.8	196	94.2
	12	5.8	208	100.0

1D.OBJECTIVE..KNOW MATH FACTS, ETC.

COBJKNW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	7			
EQUAL EMPHASIS	41	20.1	41	20.1
LESS EMPHASIS	121	59.3	162	79.4
	42	20.6	204	100.0

1E.OBJECTIVE..ATTITUDE OF INQUIRY

COBJINQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	5			
EQUAL EMPHASIS	68	33.0	68	33.0
LESS EMPHASIS	119	57.8	187	90.8
	19	9.2	206	100.0

1F.OBJECTIVE..AWARENESS OF MATH IN LIFE

COBJLIF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	3			
EQUAL EMPHASIS	37	17.8	37	17.8
LESS EMPHASIS	130	62.5	167	80.3
	41	19.7	208	100.0

1G.OBJECTIVE..COMPUTATION SPEED ACCURACY

COBJCOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	3			
EQUAL EMPHASIS	100	48.1	100	48.1
LESS EMPHASIS	83	39.9	183	88.0
	25	12.0	208	100.0

1H.OBJECTIVE..AWARE OF MATH IN SCIENCE

COBJSCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	4			
EQUAL EMPHASIS	29	14.0	29	14.0
LESS EMPHASIS	85	41.1	114	55.1
	93	44.9	207	100.0

1I.OBJECTIVE..SYSTEMATIC APPRCH PROBLEMS

COBJSYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MORE EMPHASIS	4			
EQUAL EMPHASIS	71	34.3	71	34.3
LESS EMPHASIS	112	54.1	183	88.4
	24	11.6	207	100.0

2A.APPLICATIONS SOURCE..TEXTBOOK

CSITXTA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3			
OCCASIONALLY USE	34	16.3	34	16.3
FREQUENTLY USED	91	43.8	125	60.1
	83	39.9	208	100.0

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2A.DRILL SOURCE..TEXTBOOK

CSITXTD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3			
OCCASIONALLY USE	8	3.8	8	3.8
FREQUENTLY USED	54	26.0	62	29.8
	146	70.2	208	100.0

2A.GOALS SOURCE..TEXTBOOK

CSITXTG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	2			
OCCASIONALLY USE	1	0.5	1	0.5
FREQUENTLY USED	22	10.5	23	11.0
	186	89.0	209	100.0

2A.PRESENTATION SOURCE..TEXTBOOK

CSITXTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	2			
OCCASIONALLY USE	3	1.4	3	1.4
FREQUENTLY USED	43	20.6	46	22.0
	163	78.0	209	100.0

2B.APPLICATIONS SOURCE..SYLLABUS

CSISYLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5			
OCCASIONALLY USE	110	53.4	110	53.4
FREQUENTLY USED	70	34.0	180	87.4
	26	12.6	206	100.0

2B.DRILL SOURCE..SYLLABUS

CSISYLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5			
OCCASIONALLY USE	101	49.0	101	49.0
FREQUENTLY USED	75	36.4	176	85.4
	30	14.6	206	100.0

2B.GOALS SOURCE..SYLLABUS

CSISYLG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3			
OCCASIONALLY USE	13	6.3	13	6.3
FREQUENTLY USED	81	38.9	94	45.2
	114	54.8	208	100.0

2B.PRESENTATION SOURCE..SYLLABUS

CSISYLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3			
OCCASIONALLY USE	30	14.4	30	14.4
FREQUENTLY USED	98	47.1	128	61.5
	80	38.5	208	100.0

2C.APPLICATIONS SOURCE..MIN COMPETENCIES

CSIMINA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5			
OCCASIONALLY USE	129	62.6	129	62.6
FREQUENTLY USED	66	32.0	195	94.7
	11	5.3	206	100.0

2C.DRILL SOURCE..MIN COMPETENCIES

CSIMIND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5			
OCCASIONALLY USE	130	63.1	130	63.1
FREQUENTLY USED	59	28.6	189	91.7
	17	8.3	206	100.0

2C.GOALS SOURCE..MIN COMPETENCIES

CSIMING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3			
OCCASIONALLY USE	63	30.3	63	30.3
FREQUENTLY USED	106	51.0	169	81.2
	39	18.8	208	100.0

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2C.PRESENTATION SOURCE..MIN COMPETENCIES

CSIMNP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	31.9	4	31.9
OCCASIONALLY USE	66	46.9	163	78.7
FREQUENTLY USED	97	21.3	207	100.0

2D.APPLICATIONS SOURCE..EXTERNAL EXAMS

CSIXTA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	31.3	3	31.3
OCCASIONALLY USE	65	42.8	154	74.0
FREQUENTLY USED	89	26.0	208	100.0

2D.DRILL SOURCE..EXTERNAL EXAMS

CSIXTD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	37.5	3	37.5
OCCASIONALLY USE	78	48.1	178	85.6
FREQUENTLY USED	100	14.4	208	100.0

2D.GOALS SOURCE..EXTERNAL EXAMS

CSIXTG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	75.4	4	75.4
OCCASIONALLY USE	156	22.2	202	97.6
FREQUENTLY USED	46	2.4	207	100.0

2D.PRESENTATION SOURCE..EXTERNAL EXAMS

CSIXTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	82.7	3	82.7
OCCASIONALLY USE	172	15.9	205	98.6
FREQUENTLY USED	33	1.4	208	100.0

2E.APPLICATIONS SOURCE..JOURNALS, BOOKS

CSIJRNA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	17.3	3	17.3
OCCASIONALLY USE	36	46.6	133	63.9
FREQUENTLY USED	97	36.1	208	100.0

2E.DRILL SOURCE..JOURNALS, BOOKS

CSIJRND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	19.3	3	19.3
OCCASIONALLY USE	40	49.3	142	68.6
FREQUENTLY USED	102	31.4	207	100.0

2E.GOALS SOURCE..JOURNALS, BOOKS

CSIJRNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	33.3	4	33.3
OCCASIONALLY USE	69	57.5	188	90.8
FREQUENTLY USED	119	9.2	207	100.0

2E.PRESENTATION SOURCE..JOURNALS, BOOKS

CSIJRNP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	24.0	3	24.0
OCCASIONALLY USE	50	53.4	161	77.4
FREQUENTLY USED	111	22.6	208	100.0

2F.APPLICATIONS SOURCE..BY YOURSELF

CSISLFA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	34.3	4	34.3
OCCASIONALLY USE	71	44.0	162	78.3
FREQUENTLY USED	91	21.7	207	100.0

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2F.DRILL SOURCE..BY YOURSELF

CSISLFD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	28.5	4	28.5
OCCASIONALLY USE	59	46.4	155	74.9
FREQUENTLY USED	96	25.1	207	100.0

2F.GOALS SOURCE..BY YOURSELF

CSISLFG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	33.7	3	33.7
OCCASIONALLY USE	70	48.6	171	82.2
FREQUENTLY USED	101	17.8	208	100.0

2F.PRESENTATION SOURCE..BY YOURSELF

CSISLFP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	3	25.2	3	25.2
OCCASIONALLY USE	53	51.0	160	76.2
FREQUENTLY USED	107	23.8	210	100.0

2G.APPLICATIONS SOURCE..OTHER TEACHERS

CSIOHA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	45.9	4	45.9
OCCASIONALLY USE	95	45.9	190	91.8
FREQUENTLY USED	95	8.2	207	100.0

2G.DRILL SOURCE..OTHER TEACHERS

CSIOHD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	41.1	4	41.1
OCCASIONALLY USE	85	50.2	189	91.3
FREQUENTLY USED	104	8.7	207	100.0

2G.GOALS SOURCE..OTHER TEACHERS

CSIOHG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	38.2	4	38.2
OCCASIONALLY USE	79	55.6	194	93.7
FREQUENTLY USED	115	6.3	207	100.0

2G.PRESENTATION SOURCE..OTHER TEACHERS

CSIOHP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	2	28.7	2	28.7
OCCASIONALLY USE	60	62.7	191	91.4
FREQUENTLY USED	131	8.6	209	100.0

2H.APPLICATIONS SOURCE..PROF MEETINGS

CSIPROA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5	66.5	5	66.5
OCCASIONALLY USE	137	27.7	194	94.2
FREQUENTLY USED	57	5.8	206	100.0

2H.DRILL SOURCE..PROF MEETINGS

CSIPROD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	5	64.6	5	64.6
OCCASIONALLY USE	133	31.6	198	96.1
FREQUENTLY USED	65	3.9	206	100.0

2H.GOALS SOURCE..PROF MEETINGS

CSIPROG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	4	35.3	4	35.3
OCCASIONALLY USE	73	56.0	189	91.3
FREQUENTLY USED	116	8.7	207	100.0

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2H.PRESENTATION SOURCE..PROF MEETINGS

CSIPROP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER USED	2	23.9	50	23.9
OCCASIONALLY USED	130	62.2	180	86.1
FREQUENTLY USED	29	13.9	209	100.0

3A.DIFFICULTY WITHOUT..PUBLISHED VISUALS

CDWVPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	2			
VERY EASY	106	50.7	106	50.7
FAIRLY EASY	7	3.3	113	54.1
FAIRLY DIFFICULT	74	35.4	187	89.5
VERY DIFFICULT	22	10.5	209	100.0

3B.DIFFICULTY WITHOUT..VISUALS YOURSELF

CDWVSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	66	32.0	66	32.0
FAIRLY EASY	10	4.9	76	36.9
FAIRLY DIFFICULT	62	30.1	138	67.0
VERY DIFFICULT	63	30.6	201	97.6
	5	2.4	206	100.0

3C.DIFFICULTY WITHOUT..PROBLEMS YOURSELF

CDWPSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	4			
VERY EASY	58	28.0	58	28.0
FAIRLY EASY	5	2.4	63	30.4
FAIRLY DIFFICULT	52	25.1	115	55.6
VERY DIFFICULT	85	41.1	200	96.6
	7	3.4	207	100.0

3D.DIFFICULTY WITHOUT..PUBLISHED TESTS

CDWTPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	6			
VERY EASY	41	20.0	41	20.0
FAIRLY EASY	12	5.9	53	25.9
FAIRLY DIFFICULT	64	31.2	117	57.1
VERY DIFFICULT	85	41.5	202	98.5
	3	1.5	205	100.0

3E.DIFFICULTY WITHOUT..ADVICE FROM ADMIN

CDWADVA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	84	40.8	84	40.8
FAIRLY EASY	17	8.3	101	49.0
FAIRLY DIFFICULT	70	34.0	171	83.0
VERY DIFFICULT	32	15.5	203	98.5
	3	1.5	206	100.0

3F.DIFFICULTY WITHOUT..TESTS BY YOURSELF

CDWTSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	6			
VERY EASY	45	22.0	45	22.0
FAIRLY EASY	2	1.0	47	22.9
FAIRLY DIFFICULT	27	13.2	74	36.1
VERY DIFFICULT	107	52.2	181	88.3
	24	11.7	205	100.0

3G.DIFFICULTY WITHOUT..PUBLISHED TEXTBKS

CDWTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	46	22.3	46	22.3
FAIRLY EASY	3	1.5	49	23.8
FAIRLY DIFFICULT	25	12.1	74	35.9
VERY DIFFICULT	88	42.7	162	78.6
	44	21.4	206	100.0

3H.DIFFICULTY WITHOUT..PUBLISHED WORKBKS

CDWHBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	44	21.4	44	21.4
FAIRLY EASY	11	5.3	55	26.7
FAIRLY DIFFICULT	68	33.0	123	59.7
VERY DIFFICULT	76	36.9	199	96.6
	7	3.4	206	100.0

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3I.DIFFICULTY WITHOUT..EXAMPLES MADE UP

CDWEXP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	6			
VERY EASY	63	30.7	63	30.7
FAIRLY EASY	5	2.4	68	33.2
FAIRLY DIFFICULT	44	21.5	112	54.6
VERY DIFFICULT	83	40.5	195	95.1
	10	4.9	205	100.0

3J.DIFFICULTY WITHOUT..OFFICIAL SYLLABUS

CDWSYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	6			
VERY EASY	44	21.5	44	21.5
FAIRLY EASY	5	2.4	49	23.9
FAIRLY DIFFICULT	52	25.4	101	49.3
VERY DIFFICULT	89	43.4	190	92.7
	15	7.3	205	100.0

3K.DIFFICULTY WITHOUT..RECALL FROM MATH

CDWMEHM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	46	22.3	46	22.3
FAIRLY EASY	11	5.3	57	27.7
FAIRLY DIFFICULT	57	27.7	114	55.3
VERY DIFFICULT	77	37.4	191	92.7
	15	7.3	206	100.0

3L.DIFFICULTY WITHOUT..RECALL FROM EDUC

CDWMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	4			
VERY EASY	49	23.7	49	23.7
FAIRLY EASY	14	6.8	63	30.4
FAIRLY DIFFICULT	66	31.9	129	62.3
VERY DIFFICULT	71	34.3	200	96.6
	7	3.4	207	100.0

3M.DIFFICULTY WITHOUT..ADVICE FROM TEACH

CDWADVTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	6			
VERY EASY	67	32.4	67	32.4
FAIRLY EASY	10	4.8	77	37.2
FAIRLY DIFFICULT	65	31.4	142	68.6
VERY DIFFICULT	61	29.5	203	98.1
	4	1.9	207	100.0

3N.DIFFICULTY WITHOUT..KNOWLEDGE OF EXAM

CDWEXAM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	5			
VERY EASY	77	37.4	77	37.4
FAIRLY EASY	15	7.3	92	44.7
FAIRLY DIFFICULT	69	33.5	161	78.2
VERY DIFFICULT	42	20.4	203	98.5
	3	1.5	206	100.0

4A.WHOLE CLASS WORKING AS A SINGLE GROUP
(PERCENT CLASSROOM TIME)

CGRPWHL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
20	3	1.4	3	1.4
25	2	1.0	5	2.4
30	4	1.9	9	4.3
35	1	0.5	10	4.8
40	8	3.8	18	8.6
44	3	1.4	19	9.1
45	3	1.4	22	10.5
50	24	11.5	46	22.0
55	1	0.5	47	22.5
56	1	0.5	48	23.0
60	34	16.3	82	39.2
65	1	0.5	83	39.7
70	37	17.7	120	57.4
75	5	2.4	125	59.8
80	43	20.6	168	80.4
85	8	3.8	176	84.2
90	13	6.2	189	90.4
95	5	2.4	194	92.8
96	1	0.5	195	93.3
100	14	6.7	209	100.0

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4B. SMALL GROUP INSTRUCTION (PERCENT CLASSROOM TIME)

CGRPSMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	71	34.0	71	34.0
2	1	0.5	72	34.4
3	1	0.5	73	34.9
4	1	0.5	74	35.4
5	14	6.7	88	42.1
6	2	1.0	90	43.1
10	48	23.0	138	66.0
15	6	2.9	144	68.9
17	1	0.5	145	69.4
18	1	0.5	146	69.9
20	42	20.1	188	90.0
25	5	2.4	193	92.3
30	11	5.3	204	97.6
35	1	0.5	205	98.1
40	4	1.9	209	100.0

4C. ALL STUDENTS WORKING INDIVIDUALLY
(PERCENT CLASSROOM TIME)

CGRPIND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	33	15.8	33	15.8
2	1	0.5	34	16.3
3	1	0.5	35	16.7
5	11	5.3	46	22.0
10	43	20.6	89	42.6
15	9	4.3	98	46.9
19	1	0.5	99	47.4
20	38	18.2	137	65.6
24	1	0.5	138	66.0
25	5	2.4	143	68.4
30	32	15.3	175	83.7
35	4	1.9	179	85.6
40	14	6.7	193	92.3
45	3	1.4	196	93.8
50	9	4.3	205	98.1
55	1	0.5	206	98.6
60	2	1.0	208	99.5
60	1	0.5	209	100.0

4D. OTHER GROUPING ARRANGMENT (PERCENT CLASSROOM TIME)

CGRPOTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	188	90.0	188	90.0
3	1	0.5	189	90.4
5	3	1.4	192	91.9
10	9	4.3	201	96.2
15	1	0.5	202	96.7
20	6	2.9	208	99.5
24	1	0.5	209	100.0

5A. MOST ABLE STUDENTS WORK SEPARATELY

CSGMAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	67			
NO	27	18.8	27	18.8
NONE OCCURS REG	22	15.3	49	34.0
	95	66.0	144	100.0

5B. LEAST ABLE STUDENTS WORK SEPARATELY

CSGLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	67			
NO	15	10.4	15	10.4
NONE OCCURS REG	34	23.6	49	34.0
	95	66.0	144	100.0

5C. CLASS SPLIT INTO THREE OR MORE GROUPS

CSGMANY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	67			
NO	42	4.9	7	4.9
NONE OCCURS REG	7	29.2	49	34.0
	95	66.0	144	100.0

6. SAME OR VARIED CONTENT OR PACING

CPACING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ALL SAME	2			
VARY PACE	153	73.2	153	73.2
VARY CONTENT	51	24.4	204	97.6
	5	2.4	209	100.0

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7. SAME OR VARIED EXERCISES AND PROBLEMS

CDASSGN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ALL SAME	2			
VARY DUE DATE	78	37.3	78	37.3
VARY ASSIGNMENTS	124	59.3	202	96.7
	7	3.3	209	100.0

8A. SOME STUDENTS...MORE EXERCISES

CHDMORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	158			
NO	40	75.5	40	75.5
	13	24.5	53	100.0

8B. SOME STUDENTS...DIFFICULT EXERCISES

CHDHARD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	158			
NO	11	20.8	11	20.8
	42	79.2	53	100.0

8C. SOME STUDENTS...OTHER TOPICS

CHDTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
YES	158			
NO	2	3.8	2	3.8
	51	96.2	53	100.0

9A. PROGRESS...STUDENT LACK OF ABILITY

CPGABIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	3			
IMPORTANT	80	38.5	80	38.5
NOT IMPORTANT	103	49.5	183	88.0
	25	12.0	208	100.0

9B. PROGRESS...STUDENT MISBEHAVIOUR

CPGMISB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	6			
IMPORTANT	47	22.9	47	22.9
NOT IMPORTANT	95	46.3	142	69.3
	63	30.7	205	100.0

9C. PROGRESS...STUDENT INDIFFERENCE

CPGINDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	3			
IMPORTANT	108	51.9	108	51.9
NOT IMPORTANT	84	40.4	192	92.3
	16	7.7	208	100.0

9D. PROGRESS...FEAR OF MATHEMATICS

CPGFEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	7			
IMPORTANT	40	19.6	40	19.6
NOT IMPORTANT	98	48.0	138	67.6
	66	32.4	204	100.0

9E. PROGRESS...STUDENT ABSENTEEISM

CPGABS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	13			
IMPORTANT	74	37.4	74	37.4
NOT IMPORTANT	62	31.3	136	68.7
	62	31.3	198	100.0

9F. PROGRESS...INSUFFICIENT SCHOOL TIME

CPGTIME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	6			
IMPORTANT	49	23.9	49	23.9
NOT IMPORTANT	93	45.4	142	69.3
	63	30.7	205	100.0

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9G.PROGRESS..PROFICIENCY ON YOUR PART

CPGPROF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	2			
IMPORTANT	69	33.0	69	33.0
NOT IMPORTANT	114	54.5	183	87.6
	26	12.4	209	100.0

9H.PROGRESS..LIMITED RESOURCES

CPGLIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	6			
IMPORTANT	28	13.7	28	13.7
NOT IMPORTANT	90	43.9	118	57.6
	87	42.4	205	100.0

9I.PROGRESS..TOO MANY STUDENTS

CPGMANY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	3			
IMPORTANT	62	29.8	62	29.8
NOT IMPORTANT	104	50.0	166	79.8
	42	20.2	208	100.0

9J.PROGRESS..OTHER REASONS

CPGOth	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	150			
IMPORTANT	23	37.7	23	37.7
NOT IMPORTANT	17	27.9	40	65.6
	21	34.4	61	100.0

1.STUDENTS ESPECIALLY FEARFUL ANXIOUS

CFEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	3			
1	11	5.3	11	5.3
2	56	26.9	67	32.2
3	81	38.9	148	71.2
4	24	11.5	172	82.7
	36	17.3	208	100.0

11. TARGET CLASS EASY/DIFFICULT TO TEACH

CTCLASS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FAIRLY EASY	2			
NEUTRAL	21	10.0	21	10.0
FAIRLY DIFFICULT	121	57.9	142	67.9
VERY DIFFICULT	56	26.8	198	94.7
	11	5.3	209	100.0

12. DO YOU FIND MATH DIFFICULT TO TEACH

CTMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	2			
FAIRLY EASY	1	0.5	1	0.5
NEUTRAL	17	8.1	18	8.6
FAIRLY DIFFICULT	104	49.8	122	58.4
VERY DIFFICULT	80	38.3	202	96.7
	7	3.3	209	100.0

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13A.TARGET CLASS..ATTENTIVE (NUMBER OF STUDENTS)

CTCATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	1	0.5	1	0.5
2	1	0.5	2	1.0
3	2	1.0	4	1.9
4	1	0.5	5	2.4
5	2	1.0	7	3.3
6	2	1.0	9	4.3
7	1	0.5	10	4.8
8	2	1.0	12	5.7
9	1	0.5	13	6.2
10	3	1.4	16	7.7
11	2	1.0	18	8.6
12	1	0.5	19	9.1
13	1	0.5	20	9.6
14	3	1.4	23	11.0
15	9	4.3	32	15.3
16	1	0.5	33	15.8
17	4	1.9	37	17.7
18	2	1.0	39	18.7
19	1	0.5	40	19.1
20	3	1.4	43	20.6
21	2	1.0	45	21.5
22	4	1.9	49	23.4
23	5	2.4	53	25.4
24	5	2.4	58	27.8
25	12	5.7	70	33.5
26	5	2.4	75	35.9
27	7	3.3	82	39.2
28	13	6.2	95	45.5
29	13	6.2	108	51.7
30	16	7.7	124	59.3
31	10	4.8	134	64.1
32	10	4.8	144	68.9
33	10	4.8	154	73.7
34	18	8.6	172	82.3
35	10	4.8	182	87.1
36	9	4.3	191	91.4
37	6	2.9	197	94.3
38	5	2.4	202	96.7
39	2	1.0	204	97.6
40	4	1.9	208	99.5
41	1	0.5	209	100.0

13B.TARGET CLASS..NOT ATTENTIVE (NUMBER OF STUDENTS)

CTCNATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	56	26.8	56	26.8
2	8	3.8	64	30.6
3	15	7.2	79	37.8
4	23	11.0	102	48.8
5	13	6.2	115	55.0
6	25	12.0	140	67.0
7	10	4.8	150	71.8
8	12	5.7	162	77.5
9	7	3.3	169	80.9
10	3	1.4	172	82.3
11	13	6.2	185	88.5
12	4	1.9	189	90.4
13	4	1.9	193	92.3
14	5	2.4	198	94.7
15	2	1.0	200	95.7
16	2	1.0	202	96.7
17	1	0.5	203	97.1
18	2	1.0	205	98.1
19	1	0.5	206	98.6
20	1	0.5	207	99.0
21	1	0.5	208	99.5
22	1	0.5	209	100.0

13C.TARGET CLASS..BEHAVIOUR PROBLEMS
(NUMBER OF STUDENTS)

CTCBEHV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	2			
1	110	52.6	110	52.6
2	16	7.7	126	60.3
3	28	13.4	154	73.7
4	20	9.6	174	83.3
5	11	5.3	185	88.5
6	14	6.7	199	95.2
7	3	1.4	202	96.7
8	2	1.0	204	97.6
9	1	0.5	205	98.1
10	1	0.5	206	98.6
11	1	0.5	207	99.0
12	1	0.5	208	99.5
13	1	0.5	209	100.0

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13D.TARGET CLASS..OTHER KINDS (NUMBER OF STUDENTS)

CTCOTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	163	78.7	163	78.7
1	11	5.3	174	84.1
2	10	4.8	184	88.9
3	8	3.9	192	92.8
4	2	1.0	194	93.7
5	1	0.5	195	94.2
6	2	1.0	197	95.2
7	1	0.5	198	95.7
8	1	0.5	199	96.1
10	2	1.0	201	97.1
12	1	0.5	202	97.6
13	1	0.5	203	98.1
18	2	1.0	205	99.0
19	1	0.5	206	99.5
20	1	0.5	207	100.0

14-1.RATING..TALK TO INDIVIDUAL STUDENTS

CETALK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	10	4.8	10	4.8
SOME IMPORTANCE	83	39.5	93	44.3
MAJOR IMPORTANCE	103	49.0	196	93.3
HIGHEST IMPORTANCE	14	6.7	210	100.0

14-2.RATING..STIMULATE COMPETITION

CECOMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	23	11.0	23	11.0
SOME IMPORTANCE	100	47.6	123	58.6
MAJOR IMPORTANCE	84	40.0	207	98.6
HIGHEST IMPORTANCE	3	1.4	210	100.0

14-3.RATING..GIVE LESS ABLE SIMPLE TASKS

CESIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	5	2.4	5	2.4
SOME IMPORTANCE	86	41.0	91	43.3
MAJOR IMPORTANCE	101	48.1	192	91.4
HIGHEST IMPORTANCE	18	8.6	210	100.0

14-4.RATING..PRAISE STUDENT WHEN CORRECT

CEPRSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2	14.8	2	14.8
SOME IMPORTANCE	107	51.2	109	66.0
MAJOR IMPORTANCE	54	25.8	163	91.9
HIGHEST IMPORTANCE	17	8.1	180	100.0

14-5.RATING..PLAN TRANSITIONS

CETRAN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	3	3.4	3	3.4
SOME IMPORTANCE	48	23.1	51	26.4
MAJOR IMPORTANCE	127	61.1	178	87.5
HIGHEST IMPORTANCE	26	12.5	204	100.0

14-6.RATING..MAKE ENCOURAGING REMARKS

CERMRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1	0.5	1	0.5
SOME IMPORTANCE	19	9.0	20	9.5
MAJOR IMPORTANCE	123	58.6	143	68.1
HIGHEST IMPORTANCE	67	31.9	210	100.0

14-7.RATING..CHANGE ACTIVITY IF NO ATTN

CECHNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1	9.5	1	9.5
SOME IMPORTANCE	70	33.3	71	42.9
MAJOR IMPORTANCE	108	51.4	179	84.3
HIGHEST IMPORTANCE	12	5.7	191	100.0

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14-8.RATING..MORE ABLE GET HARD PROBLEMS

CEHPROB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	22	10.5	22	10.5
SOME IMPORTANCE	108	51.4	130	61.9
MAJOR IMPORTANCE	76	36.2	206	98.1
HIGHEST IMPORTANCE	4	1.9	210	100.0

14-9.RATING..CORRECT FALSE STATMENTS

CECORRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2	14.4	2	14.4
SOME IMPORTANCE	30	27.3	32	41.6
MAJOR IMPORTANCE	57	39.2	89	80.9
HIGHEST IMPORTANCE	40	19.1	129	100.0

14-1.RATING..SUMMARIZE AT END OF PERIOD

CESUM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	15	7.1	15	7.1
SOME IMPORTANCE	112	53.3	127	60.5
MAJOR IMPORTANCE	83	39.5	210	100.0

14-11.RATING..PRESENT HIGHLY STRUCTURED

CESTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2	28.2	2	28.2
SOME IMPORTANCE	59	57.4	61	85.6
MAJOR IMPORTANCE	120	57.4	179	99.0
HIGHEST IMPORTANCE	28	1.0	207	100.0

14-12.RATING..ACTION DEAL WITH DISCOMFORT

CEACT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2	12.9	2	12.9
SOME IMPORTANCE	27	53.6	29	66.5
MAJOR IMPORTANCE	112	28.7	141	95.2
HIGHEST IMPORTANCE	60	4.8	201	100.0

14-13.RATING..CLEAR RULES FOR BEHAVIOUR

CERULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	5	9.2	5	9.2
SOME IMPORTANCE	19	39.8	24	49.0
MAJOR IMPORTANCE	82	39.8	106	88.8
HIGHEST IMPORTANCE	23	11.2	129	100.0

14-14.RATING..VARY DIFFICULTY OF QUESTIONS

CEVARY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	6	2.0	6	2.0
SOME IMPORTANCE	4	38.0	10	40.0
MAJOR IMPORTANCE	78	55.1	188	95.1
HIGHEST IMPORTANCE	10	4.9	198	100.0

14-15.RATING..FREQ INDIVIDUAL FEEDBACK

CEFEED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2	0.5	2	0.5
SOME IMPORTANCE	1	12.4	3	12.9
MAJOR IMPORTANCE	26	56.5	29	69.4
HIGHEST IMPORTANCE	118	30.6	147	100.0

14-16.RATING..CLEAR UP PREVIOUS PROBLEMS

CEPREV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	4	12.6	4	12.6
SOME IMPORTANCE	26	56.5	30	69.1
MAJOR IMPORTANCE	117	30.9	147	100.0

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14-17.RATING..WARM PERSONAL RELATIONSHIP

CEWARM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	1	0.5	1	0.5
MAJOR IMPORTANCE	17	8.1	18	8.6
HIGHEST IMPORTANCE	76	36.4	94	45.0
	115	55.0	209	100.0

14-18.RATING..DISCUSSIONS MAY GO LONGER

CELONG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	5			
SOME IMPORTANCE	30	14.6	30	14.6
MAJOR IMPORTANCE	132	64.1	162	78.6
HIGHEST IMPORTANCE	44	21.4	206	100.0

14-19.RATING..OPPORTUNITY FOR DISCOVERY

CEDSKV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1	0.5	1	0.5
SOME IMPORTANCE	14	6.7	15	7.1
MAJOR IMPORTANCE	124	59.0	139	66.2
HIGHEST IMPORTANCE	71	33.8	210	100.0

14-2.RATING..GET READY BEFORE CLASS

CERDV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	2	1.0	2	1.0
MAJOR IMPORTANCE	35	16.7	37	17.7
HIGHEST IMPORTANCE	105	50.2	142	67.9
	67	32.1	209	100.0

14-21.RATING..BEGIN BY OUTLINE CONTENT

CEOUTLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	16	7.7	16	7.7
MAJOR IMPORTANCE	67	32.1	83	39.7
HIGHEST IMPORTANCE	95	45.5	178	85.2
	31	14.8	209	100.0

14-22.RATING..MAKE PRESENTATIONS LIVELY

CELVLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	8	3.8	8	3.8
MAJOR IMPORTANCE	72	34.3	80	38.1
HIGHEST IMPORTANCE	130	61.9	210	100.0

14-23.RATING..ANTICIPATE QUESTIONS

CEANTCQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	9	4.3	9	4.3
MAJOR IMPORTANCE	65	31.0	74	35.2
HIGHEST IMPORTANCE	108	51.4	182	86.7
	28	13.3	210	100.0

14-24.RATING..AVOID CRITICAL OF ANSWERS

CECRIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	28	13.3	28	13.3
MAJOR IMPORTANCE	82	39.0	110	52.4
HIGHEST IMPORTANCE	70	33.3	180	85.7
	30	14.3	210	100.0

14-25.RATING..CALL ON NON-VOLUNTEERS

CECALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	22	10.5	22	10.5
MAJOR IMPORTANCE	84	40.0	106	50.5
HIGHEST IMPORTANCE	96	45.7	202	96.2
	8	3.8	210	100.0

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14-26.RATING..FIND SPECIFIC WEAKNESSES

CESPWK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	17	8.1	17	8.1
MAJOR IMPORTANCE	71	34.0	88	42.1
HIGHEST IMPORTANCE	100	47.8	188	90.0
	21	10.0	209	100.0

14-27.RATING..WRITE MEANINGFUL COMMENTS

CECHMNT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	2	1.0	2	1.0
MAJOR IMPORTANCE	21	10.0	23	11.0
HIGHEST IMPORTANCE	142	67.9	165	78.9
	44	21.1	209	100.0

14-28.RATING..MORE ENCOURAGEMENT TO GIRLS

CEGIRLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	117	56.0	117	56.0
MAJOR IMPORTANCE	68	32.5	185	88.5
HIGHEST IMPORTANCE	22	10.5	207	99.0
	2	1.0	209	100.0

14-29.RATING..INTERVENE..FOOLING AROUND

CEFOOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	6	2.9	6	2.9
MAJOR IMPORTANCE	53	25.2	59	28.1
HIGHEST IMPORTANCE	98	46.7	157	74.8
	53	25.2	210	100.0

14-3.RATING..SAY GOOD ABOUT ANSWERS

CESAYGD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	3	1.4	3	1.4
MAJOR IMPORTANCE	31	14.8	34	16.2
HIGHEST IMPORTANCE	121	57.6	155	73.8
	55	26.2	210	100.0

14-31.RATING..CHANGE FOR SAKE OF VARIETY

CEVRTY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	9	4.3	9	4.3
MAJOR IMPORTANCE	82	39.0	91	43.3
HIGHEST IMPORTANCE	110	52.4	201	95.7
	9	4.3	210	100.0

14-32.RATING..TRULY DIFFICULT PROBLEMS

CETRDIF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	76	36.2	76	36.2
MAJOR IMPORTANCE	98	46.7	174	82.9
HIGHEST IMPORTANCE	33	15.7	207	98.6
	3	1.4	210	100.0

14-33.RATING..REVIEW TESTS AFTER GRADING

CERVST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	1			
SOME IMPORTANCE	1	0.5	1	0.5
MAJOR IMPORTANCE	29	13.8	30	14.3
HIGHEST IMPORTANCE	110	52.4	140	66.7
	70	33.3	210	100.0

14-34.RATING..FORSTALL STUDENT DISTURBNC

CEFORST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	31	14.8	31	14.8
MAJOR IMPORTANCE	82	39.2	113	54.1
HIGHEST IMPORTANCE	70	33.5	183	87.6
	26	12.4	209	100.0

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14-35.RATING..STUDENTS KNOW WHAT TO DO

CEKNDO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SOME IMPORTANCE	1			
MAJOR IMPORTANCE	13	6.2	13	6.2
HIGHEST IMPORTANCE	118	56.2	131	62.4
	79	37.6	210	100.0

14-36.RATING..STUDENT PREF INTO ACCOUNT

CESTPRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	3			
SOME IMPORTANCE	19	9.1	19	9.1
MAJOR IMPORTANCE	93	44.7	112	53.8
HIGHEST IMPORTANCE	88	42.3	200	96.2
	8	3.8	208	100.0

14-37.RATING..STOP MATTERS NOT RELATED

CESTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	3			
SOME IMPORTANCE	13	6.3	13	6.3
MAJOR IMPORTANCE	73	35.1	86	41.3
HIGHEST IMPORTANCE	87	41.8	173	83.2
	35	16.8	208	100.0

14-38.RATING..GIVE TAILORED ASSIGNMENTS

CETAIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	6			
SOME IMPORTANCE	9	4.4	9	4.4
MAJOR IMPORTANCE	65	31.7	74	36.1
HIGHEST IMPORTANCE	109	53.2	183	89.3
	22	10.7	205	100.0

14-39.RATING..STUDENTS IN DIFFICULTY

CEIDENT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	3			
SOME IMPORTANCE	3	1.4	3	1.4
MAJOR IMPORTANCE	29	13.9	32	15.4
HIGHEST IMPORTANCE	123	59.1	155	74.5
	53	25.5	208	100.0

14-40.RATING..MATH APPROPRIATE FOR GIRLS

CEGAPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	66	31.6	66	31.6
MAJOR IMPORTANCE	65	31.1	131	62.7
HIGHEST IMPORTANCE	64	30.6	195	93.3
	14	6.7	209	100.0

14-41.RATING..STEP BY STEP INSTRUCTIONS

CESTEP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO IMPORTANCE	2			
SOME IMPORTANCE	18	8.6	18	8.6
MAJOR IMPORTANCE	84	40.2	102	48.8
HIGHEST IMPORTANCE	86	41.1	188	90.0
	21	10.0	209	100.0

JPNA3

Item Achievement level - Pre test

JAPAN -- POPULATION A
FLAGS AND DATA AVAILABILITY

FLAG FOR FORM 1-PRETEST

XCORE1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	8	0.1	8	0.1
FORM PRESENT	7777	99.9	7785	100.0

FLAG FOR FORM 2-PRETEST

XCORE2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	10	0.1	10	0.1
FORM PRESENT	7775	99.9	7785	100.0

AVAILABILITY AND COMPLETENESS -- PRETEST

XQLTY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	7	0.1	7	0.1
NOT AVAILABLE	1	0.0	8	0.1
AVAILABLE/INCOMP	73	0.9	81	1.0
AVAILABLE/COMPLE	7704	99.0	7785	100.0

AVAILABILITY AND COMPLETENESS -- PRETEST

XQLTY2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT APPLICABLE	9	0.1	9	0.1
NOT AVAILABLE	1	0.0	10	0.1
AVAILABLE/INCOMP	60	0.8	70	0.9
AVAILABLE/COMPLE	7715	99.1	7785	100.0

FLAG FOR FORM 2-PRETEST

YCORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	1	0.0	1	0.0
FORM PRESENT	7784	100.0	7785	100.0

FLAG FOR ROTATED FORM 1-POSTTEST

YFORMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	5799	74.5	5799	74.5
FORM PRESENT	1986	25.5	7785	100.0

FLAG FOR ROTATED FORM 2-POSTTEST

YFORMB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	5803	74.5	5803	74.5
FORM PRESENT	1982	25.5	7785	100.0

FLAG FOR ROTATED FORM 3-POSTTEST

YFORMC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	5820	74.8	5820	74.8
FORM PRESENT	1965	25.2	7785	100.0

FLAG FOR ROTATED FORM 4-POSTTEST

YFORMD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	5934	76.2	5934	76.2
FORM PRESENT	1851	23.8	7785	100.0

AVAILABILITY AND COMPLETENESS -- POSTTES

YQLTY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	1	0.0	1	0.0
AVAILABLE/INCOMP	63	0.8	64	0.8
AVAILABLE/COMPLE	7721	99.2	7785	100.0

AVAILABILITY AND COMPLETENESS -- POSTTES

YQLTY2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	1	0.0	1	0.0
AVAILABLE/INCOMP	171	2.2	172	2.2
AVAILABLE/COMPLE	7613	97.8	7785	100.0

JAPAN -- POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

XR002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	144	.	.	.
B	1142	14.9	1142	14.9
C	4495	58.8	5637	73.8
D	923	12.1	6560	85.9
E	154	2.0	6714	87.9
	925	12.1	7639	100.0

XS002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	146	.	.	.
CORRECT ANSWER	3144	41.2	3144	41.2
	4495	58.8	7639	100.0

XR003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	60	.	.	.
B	317	4.1	317	4.1
C	598	7.7	915	11.8
D	208	2.7	1123	14.5
E	78	1.0	1201	15.5
	6524	84.5	7725	100.0

XS003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	60	.	.	.
CORRECT ANSWER	1201	15.5	1201	15.5
	6524	84.5	7725	100.0

XR006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	157	.	.	.
B	225	2.9	225	2.9
C	2740	35.9	2965	38.9
D	2773	36.4	5733	75.2
E	162	2.1	5900	77.3
	1728	22.7	7628	100.0

XS006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	157	.	.	.
CORRECT ANSWER	4855	63.6	4855	63.6
	2773	36.4	7628	100.0

XR007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	450	.	.	.
B	5432	74.1	5432	74.1
C	850	11.6	6282	85.6
D	582	7.9	6864	93.6
E	124	1.7	6988	95.3
	347	4.7	7335	100.0

XS007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	450	.	.	.
CORRECT ANSWER	1903	25.9	1903	25.9
	5432	74.1	7335	100.0

XR008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	53	.	.	.
B	1713	22.2	1713	22.2
C	226	2.9	1939	25.1
D	43	0.6	1982	25.6
E	3138	40.6	5120	66.2
	2612	33.8	7732	100.0

XS008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	53	.	.	.
CORRECT ANSWER	5120	66.2	5120	66.2
	2612	33.8	7732	100.0

XR009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	375	.	.	.
B	3557	48.0	3557	48.0
C	541	7.3	4098	55.3
D	659	8.9	4757	64.2
E	1459	19.7	6216	83.9
	1194	16.1	7410	100.0

JAPAN -- POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

XS009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	375	.	.	.
CORRECT ANSWER	3853	52.0	3853	52.0
	3557	48.0	7410	100.0

XR010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	269	.	.	.
B	80	1.1	80	1.1
C	1531	20.4	1611	21.4
D	107	1.4	1718	22.9
E	4412	58.7	6130	81.6
	1386	18.4	7516	100.0

XS010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	269	.	.	.
CORRECT ANSWER	3104	41.3	3104	41.3
	4412	58.7	7516	100.0

XR013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	178	.	.	.
B	281	3.7	281	3.7
C	649	8.5	930	12.2
D	135	1.8	1065	14.0
E	2135	28.1	3200	42.1
	4407	57.9	7607	100.0

XS013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	178	.	.	.
CORRECT ANSWER	3200	42.1	3200	42.1
	4407	57.9	7607	100.0

XR014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	803	.	.	.
B	675	9.7	675	9.7
C	670	9.6	1345	19.3
D	2847	40.8	4192	60.0
E	1115	16.0	5307	76.0
	1675	24.0	6982	100.0

XS014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	803	.	.	.
CORRECT ANSWER	4135	59.2	4135	59.2
	2847	40.8	6982	100.0

XR015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	1927	.	.	.
B	1109	18.9	1109	18.9
C	1596	27.2	2705	46.2
D	1799	30.7	4504	76.9
E	926	15.8	5430	92.7
	428	7.3	5858	100.0

XS015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	1927	.	.	.
CORRECT ANSWER	4932	84.2	4932	84.2
	926	15.8	5858	100.0

XR016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	813	.	.	.
B	475	6.8	475	6.8
C	2409	34.6	2884	41.4
D	620	8.9	3504	50.3
E	1934	27.7	5438	78.0
	1534	22.0	6972	100.0

XS016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	813	.	.	.
CORRECT ANSWER	4563	65.4	4563	65.4
	2409	34.6	6972	100.0

JAPAN -- POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

	XR017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1621			
B		613	9.9	613	9.9
C		349	5.7	962	15.6
D		3980	64.6	4942	80.2
E		425	6.9	5367	87.1
		797	12.9	6164	100.0

	XS017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1621			
CORRECT ANSWER		2184	35.4	2184	35.4
		3980	64.6	6164	100.0

	XR018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1239			
B		2587	39.5	2587	39.5
C		670	10.2	3257	49.8
D		1703	26.0	4960	75.8
E		301	4.6	5261	80.4
		1285	19.6	6546	100.0

	XS018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1239			
CORRECT ANSWER		3959	60.5	3959	60.5
		2587	39.5	6546	100.0

	XR019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		994			
B		1148	16.9	1148	16.9
C		957	14.1	2105	31.0
D		3315	48.8	5420	79.8
E		565	8.3	5985	88.1
		806	11.9	6791	100.0

	XS019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		994			
CORRECT ANSWER		3476	51.2	3476	51.2
		3315	48.8	6791	100.0

	XR022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		129			
B		6041	78.9	6041	78.9
C		211	2.8	6252	81.7
D		1215	15.9	7467	97.5
E		95	1.2	7562	98.8
		94	1.2	7656	100.0

	XS022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		129			
CORRECT ANSWER		1615	21.1	1615	21.1
		6041	78.9	7656	100.0

	XR023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		890			
B		212	3.1	212	3.1
C		322	4.7	534	7.7
D		684	9.9	1218	17.7
E		5122	74.3	6340	92.0
		555	8.0	6895	100.0

	XS023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		890			
CORRECT ANSWER		1773	25.7	1773	25.7
		5122	74.3	6895	100.0

	XR026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		377			
B		544	7.3	544	7.3
C		4901	66.2	5445	73.5
D		1163	15.7	6608	89.2
E		357	4.8	6965	94.0
		443	6.0	7408	100.0

JAPAN -- POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

	XS026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		377			
CORRECT ANSWER		2507	33.8	2507	33.8
		4901	66.2	7408	100.0

	XR028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1288			
B		2977	45.8	2977	45.8
C		630	9.7	3607	55.5
D		528	8.1	4135	63.6
E		2049	31.5	6184	95.2
		313	4.8	6497	100.0

	XS028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1288			
CORRECT ANSWER		4448	68.5	4448	68.5
		2049	31.5	6497	100.0

	XR029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		2227			
B		1069	19.2	1069	19.2
C		810	14.6	1879	33.8
D		731	13.2	2610	47.0
E		433	7.8	3043	54.7
		2515	45.3	5558	100.0

	XS029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		2227			
CORRECT ANSWER		4489	80.8	4489	80.8
		1069	19.2	5558	100.0

	XR031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		180			
B		386	5.1	386	5.1
C		836	11.0	1222	16.1
D		564	7.4	1786	23.5
E		5552	73.0	7338	96.5
		267	3.5	7605	100.0

	XS031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		180			
CORRECT ANSWER		2053	27.0	2053	27.0
		5552	73.0	7605	100.0

	XR038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		68			
B		501	6.5	501	6.5
C		996	12.9	1497	19.4
D		214	2.8	1711	22.2
E		976	12.6	2687	34.8
		5030	65.2	7717	100.0

	XS038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		68			
CORRECT ANSWER		2687	34.8	2687	34.8
		5030	65.2	7717	100.0

	XR040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		286			
B		393	5.2	393	5.2
C		5935	79.1	6328	84.4
D		519	6.9	6847	91.3
E		456	6.1	7303	97.4
		196	2.6	7499	100.0

	XS040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		286			
CORRECT ANSWER		1564	20.9	1564	20.9
		5935	79.1	7499	100.0

JAPAN — POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

XR044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	152			
B	397	5.2	397	5.2
C	5373	70.4	5770	75.6
D	1423	18.6	7193	94.2
E	288	3.8	7481	98.0
	152	2.0	7633	100.0

XS044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	152			
CORRECT ANSWER	2260	29.6	2260	29.6
	5373	70.4	7633	100.0

XR046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	293			
B	2262	30.2	2262	30.2
C	759	10.1	3021	40.3
D	320	4.3	3341	44.6
E	3960	52.9	7301	97.5
	191	2.5	7492	100.0

XS046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	293			
CORRECT ANSWER	3532	47.1	3532	47.1
	3960	52.9	7492	100.0

XR047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	701			
B	1005	14.2	1005	14.2
C	962	13.6	1967	27.8
D	3248	45.8	5215	73.6
E	399	5.6	5614	79.2
	1470	20.8	7084	100.0

XS047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	701			
CORRECT ANSWER	3836	54.2	3836	54.2
	3248	45.8	7084	100.0

XR053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	2073			
B	1404	24.6	1404	24.6
C	1804	31.6	3208	56.2
D	848	14.8	4056	71.0
E	557	9.8	4613	80.8
	1099	19.2	5712	100.0

XS053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	2073			
CORRECT ANSWER	3908	68.4	3908	68.4
	1804	31.6	5712	100.0

XR055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	1806			
B	404	6.8	404	6.8
C	847	14.2	1251	20.9
D	1249	20.9	2500	41.8
E	1888	31.6	4388	73.4
	1591	26.6	5979	100.0

XS055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	1806			
CORRECT ANSWER	4388	73.4	4388	73.4
	1591	26.6	5979	100.0

XR059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	404			
B	325	4.4	325	4.4
C	624	8.5	949	12.9
D	706	9.6	1655	22.4
E	2933	40.6	4648	63.0
	2733	37.0	7381	100.0

JAPAN — POPULATION A
BEGINNING OF YEAR ACHIEVEMENT

XS059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	404			
CORRECT ANSWER	4388	59.4	4388	59.4
	2993	40.6	7381	100.0

XR061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	1904			
B	3305	56.2	3305	56.2
C	1419	24.1	4724	80.3
D	378	6.4	5102	86.8
E	199	3.4	5301	90.1
	580	9.9	5881	100.0

XS061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	1904			
CORRECT ANSWER	2576	43.8	2576	43.8
	3305	56.2	5881	100.0

XR069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	486			
B	129	1.8	129	1.8
C	6368	87.2	6497	89.0
D	481	6.6	6978	95.6
E	147	2.0	7125	97.6
	174	2.4	7299	100.0

XS069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	486			
CORRECT ANSWER	931	12.8	931	12.8
	6368	87.2	7299	100.0

XR070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	123			
B	692	9.0	692	9.0
C	198	2.6	890	11.6
D	692	9.0	1582	20.6
E	5391	70.4	6973	91.0
	689	9.0	7662	100.0

XS070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	123			
CORRECT ANSWER	2271	29.6	2271	29.6
	5391	70.4	7662	100.0

XR071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	299			
B	270	3.6	270	3.6
C	474	6.3	744	9.9
D	5236	69.9	5980	79.9
E	269	3.6	6249	83.5
	1237	16.5	7486	100.0

XS071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	299			
CORRECT ANSWER	2250	30.1	2250	30.1
	5236	69.9	7486	100.0

XR072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	623			
B	357	5.0	357	5.0
C	557	7.8	914	12.8
D	953	13.3	1867	26.1
E	437	6.0	6304	88.0
	858	12.0	7162	100.0

XS072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	623			
CORRECT ANSWER	2725	38.0	2725	38.0
	4437	62.0	7162	100.0

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XR074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	653			
A	2614	36.7	2614	36.7
B	2237	31.4	4851	68.0
C	354	5.0	5205	73.0
D	1294	18.1	6499	91.1
E	633	8.9	7132	100.0

XS074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	653			
INCORRECT ANSWER	4518	63.3	4518	63.3
CORRECT ANSWER	2614	36.7	7132	100.0

XR075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	186			
A	580	7.6	580	7.6
B	643	8.5	1223	16.1
C	5860	77.1	7083	93.2
D	270	3.6	7353	96.8
E	246	3.2	7599	100.0

XS075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	186			
INCORRECT ANSWER	1739	22.9	1739	22.9
CORRECT ANSWER	5860	77.1	7599	100.0

XR078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	505			
A	1781	24.5	1781	24.5
B	2663	36.6	4444	61.0
C	453	6.2	4897	67.3
D	1937	26.6	6834	93.9
E	446	6.1	7280	100.0

XS078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	505			
INCORRECT ANSWER	4617	63.4	4617	63.4
CORRECT ANSWER	2663	36.6	7280	100.0

XR079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	208			
A	248	3.3	248	3.3
B	1306	17.2	1554	20.5
C	408	5.4	1962	25.9
D	4858	64.1	6820	90.0
E	757	10.0	7577	100.0

XS079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	208			
INCORRECT ANSWER	2719	35.9	2719	35.9
CORRECT ANSWER	4858	64.1	7577	100.0

XR080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	519			
A	450	6.2	450	6.2
B	529	7.3	979	13.5
C	5601	77.1	6580	90.6
D	320	4.4	6900	95.0
E	366	5.0	7266	100.0

XS080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	519			
INCORRECT ANSWER	1665	22.9	1665	22.9
CORRECT ANSWER	5601	77.1	7266	100.0

XR082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	189			
A	3156	41.5	3156	41.5
B	961	12.7	4117	54.2
C	122	1.6	4239	55.8
D	803	10.6	5042	66.4
E	2554	33.6	7596	100.0

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XS082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	189			
INCORRECT ANSWER	4440	58.5	4440	58.5
CORRECT ANSWER	3156	41.5	7596	100.0

XR086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1521			
A	2149	34.3	2149	34.3
B	2281	36.4	4430	70.7
C	1345	21.5	5775	92.2
D	283	4.5	6058	96.7
E	206	3.3	6264	100.0

XS086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1521			
INCORRECT ANSWER	4115	65.7	4115	65.7
CORRECT ANSWER	2149	34.3	6264	100.0

XR099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	619			
A	851	11.9	851	11.9
B	4788	66.8	5639	78.7
C	773	10.8	6412	89.5
D	261	3.6	6673	93.1
E	493	6.9	7166	100.0

XS099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	619			
INCORRECT ANSWER	2378	33.2	2378	33.2
CORRECT ANSWER	4788	66.8	7166	100.0

XR108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
A	508	6.6	508	6.6
B	1397	18.1	1905	24.7
C	290	3.8	2195	28.5
D	1481	19.2	3676	47.7
E	4025	52.3	7701	100.0

XS108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
INCORRECT ANSWER	3676	47.7	3676	47.7
CORRECT ANSWER	4025	52.3	7701	100.0

XR110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	246			
A	753	10.0	753	10.0
B	563	7.5	1316	17.5
C	4562	60.5	5878	78.0
D	867	11.5	6745	89.5
E	794	10.5	7539	100.0

XS110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	246			
INCORRECT ANSWER	2977	39.5	2977	39.5
CORRECT ANSWER	4562	60.5	7539	100.0

XR113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	546			
A	228	3.1	228	3.1
B	1430	19.8	1658	22.9
C	3060	42.3	4718	65.2
D	120	1.7	4838	66.8
E	2401	33.2	7239	100.0

XS113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	546			
INCORRECT ANSWER	5809	80.2	5809	80.2
CORRECT ANSWER	1430	19.8	7239	100.0

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	XR120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		908			
B		961	14.0	961	14.0
C		2904	42.2	3865	56.2
D		1095	15.9	4960	72.1
E		1283	18.7	6243	90.8
		634	9.2	6877	100.0

	XS120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		908	57.8	3973	57.8
CORRECT ANSWER		3973	42.2	6877	100.0

	XR124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1189			
B		3021	45.8	3021	45.8
C		1109	16.8	4130	62.6
D		1072	16.3	5202	78.9
E		997	15.1	6199	94.0
		397	6.0	6596	100.0

	XS124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1189	54.2	3575	54.2
CORRECT ANSWER		3575	45.8	6596	100.0

	XR129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		789			
B		663	9.5	663	9.5
C		811	11.6	1474	21.1
D		1267	18.1	2741	39.2
E		2817	40.3	5558	79.4
		1438	20.6	6996	100.0

	XS129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		789	59.7	4179	59.7
CORRECT ANSWER		4179	40.3	6996	100.0

	XR137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1613			
B		1143	18.5	1143	18.5
C		1134	18.4	2277	36.9
D		724	11.7	3001	48.6
E		2170	35.2	5171	83.8
		1001	16.2	6172	100.0

	XS137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1613	64.8	4002	64.8
CORRECT ANSWER		4002	35.2	6172	100.0

	XR139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		1841			
B		1266	21.3	1266	21.3
C		602	10.1	1868	31.4
D		800	13.5	2668	44.9
E		2025	34.1	4693	79.0
		1251	21.0	5944	100.0

	XS139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		1841	78.7	4678	78.7
CORRECT ANSWER		4678	21.3	5944	100.0

	XR142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		870			
B		273	3.9	273	3.9
C		809	11.7	1082	15.6
D		706	10.2	1788	25.9
E		1313	19.0	3101	44.8
		3814	55.2	6915	100.0

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	XS142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		870			
CORRECT ANSWER		3101	44.8	3101	44.8
		3814	55.2	6915	100.0

	XR143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		282			
B		5135	68.4	5135	68.4
C		1497	20.0	6632	88.4
D		484	6.5	7116	94.8
E		206	2.7	7322	97.6
		181	2.4	7503	100.0

	XS143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		282	31.6	2368	31.6
CORRECT ANSWER		2368	68.4	7503	100.0

	XR153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		243			
B		267	3.5	267	3.5
C		992	13.2	1259	16.7
D		1497	19.8	2756	36.5
E		199	2.6	2955	39.2
		4587	60.8	7542	100.0

	XS153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		243	39.2	2955	39.2
CORRECT ANSWER		2955	60.8	7542	100.0

	XR155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		844			
B		339	4.9	339	4.9
C		838	12.1	1177	17.0
D		443	6.4	1620	23.3
E		5006	72.1	6626	95.5
		315	4.5	6941	100.0

	XS155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		844	27.9	1935	27.9
CORRECT ANSWER		1935	72.1	6941	100.0

	XR159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		53			
B		50	0.6	50	0.6
C		106	1.4	156	2.0
D		567	7.3	723	9.4
E		795	10.3	1518	19.6
		6214	80.4	7732	100.0

	XS159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		53	19.6	1518	19.6
CORRECT ANSWER		1518	80.4	7732	100.0

	XR160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A		95			
B		468	6.1	468	6.1
C		320	4.2	788	10.2
D		247	3.2	1035	13.5
E		6233	81.1	7268	94.5
		422	5.5	7690	100.0

	XS160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER		95	18.9	1457	18.9
CORRECT ANSWER		1457	81.1	7690	100.0

	XR161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		285			
A		4520	60.3	4520	60.3
B		1250	16.7	5770	76.9
C		566	7.5	6336	84.5
D		754	10.1	7090	94.5
E		410	5.5	7500	100.0

	XS161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		285			
INCORRECT ANSWER		2980	39.7	2980	39.7
CORRECT ANSWER		4520	60.3	7500	100.0

	XR162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		124			
A		110	1.4	110	1.4
B		546	7.1	656	8.6
C		5966	77.9	6622	86.4
D		638	8.3	7260	94.8
E		401	5.2	7661	100.0

	XS162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		124			
INCORRECT ANSWER		1695	22.1	1695	22.1
CORRECT ANSWER		5966	77.9	7661	100.0

	XR167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		457			
A		412	5.6	412	5.6
B		334	4.6	746	10.2
C		825	11.3	1571	21.4
D		5149	70.3	6720	91.7
E		608	8.3	7328	100.0

	XS167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		457			
INCORRECT ANSWER		2179	29.7	2179	29.7
CORRECT ANSWER		5149	70.3	7328	100.0

	XR168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		141			
A		2088	27.3	2088	27.3
B		1975	25.8	4063	53.2
C		303	4.0	4366	57.1
D		3209	42.0	7575	99.1
E		69	0.9	7644	100.0

	XS168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		141			
INCORRECT ANSWER		5556	72.7	5556	72.7
CORRECT ANSWER		2088	27.3	7644	100.0

	XR174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		130			
A		898	11.7	898	11.7
B		1022	13.4	1920	25.1
C		354	4.6	2274	29.7
D		4765	62.2	7039	92.0
E		616	8.0	7655	100.0

	XS174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
		130			
INCORRECT ANSWER		2890	37.8	2890	37.8
CORRECT ANSWER		4765	62.2	7655	100.0

Item Achievement level - Post test

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YR001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	78			
A	6458	83.8	6458	83.8
B	277	3.6	6735	87.4
C	368	4.8	7103	92.2
D	228	3.0	7331	95.1
E	376	4.9	7707	100.0

YS001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	78			
INCORRECT ANSWER	1249	16.2	1249	16.2
CORRECT ANSWER	6458	83.8	7707	100.0

YR002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	63			
A	1062	13.8	1062	13.8
B	4825	62.5	5887	76.2
C	928	12.0	6815	88.3
D	227	2.9	7042	91.2
E	680	8.8	7722	100.0

YS002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	63			
INCORRECT ANSWER	2897	37.5	2897	37.5
CORRECT ANSWER	4825	62.5	7722	100.0

YR003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	30			
A	285	3.7	285	3.7
B	274	3.5	559	7.2
C	196	2.5	755	9.7
D	84	1.1	839	10.8
E	6916	89.2	7755	100.0

YS003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	30			
INCORRECT ANSWER	839	10.8	839	10.8
CORRECT ANSWER	6916	89.2	7755	100.0

YR004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	76			
A	132	1.7	132	1.7
B	229	3.0	361	4.7
C	325	4.2	686	8.9
D	6415	83.2	7101	92.1
E	608	7.9	7709	100.0

YS004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	76			
INCORRECT ANSWER	1294	16.8	1294	16.8
CORRECT ANSWER	6415	83.2	7709	100.0

YR005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	68			
A	829	10.7	829	10.7
B	530	6.9	1359	17.6
C	4863	63.0	6222	80.6
D	261	3.4	6483	84.0
E	1234	16.0	7717	100.0

YS005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	68			
INCORRECT ANSWER	2854	37.0	2854	37.0
CORRECT ANSWER	4863	63.0	7717	100.0

YR006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
A	190	2.5	190	2.5
B	2996	38.9	3186	41.3
C	3577	46.4	6763	87.8
D	242	3.1	7005	90.9
E	701	9.1	7706	100.0

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YS006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	79			
	4129	53.6	4129	53.6
CORRECT ANSWER	3577	46.4	7706	100.0

YR007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	288			
B	5621	75.0	5621	75.0
C	885	11.8	6506	86.8
D	427	5.7	6933	92.5
E	228	3.0	7161	95.5
	336	4.5	7497	100.0

YS007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	288			
	1876	25.0	1876	25.0
CORRECT ANSWER	5621	75.0	7497	100.0

YR008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	46			
B	1808	23.4	1808	23.4
C	241	3.1	2049	26.5
D	86	1.1	2135	27.6
E	3151	40.7	5286	68.3
	2453	31.7	7739	100.0

YS008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	46			
	5286	68.3	5286	68.3
CORRECT ANSWER	2453	31.7	7739	100.0

YR009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	266			
B	3631	48.3	3631	48.3
C	523	7.0	4154	55.2
D	810	10.8	4964	66.0
E	1496	19.9	6460	85.9
	1059	14.1	7519	100.0

YS009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	266			
	3888	51.7	3888	51.7
CORRECT ANSWER	3631	48.3	7519	100.0

YR010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	39			
B	86	1.1	86	1.1
C	602	7.8	688	8.9
D	126	1.6	814	10.5
E	6058	78.2	6872	88.7
	874	11.3	7746	100.0

YS010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	39			
	1688	21.8	1688	21.8
CORRECT ANSWER	6058	78.2	7746	100.0

YR011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	922			
B	298	4.3	298	4.3
C	596	8.7	894	13.0
D	640	9.3	1534	22.4
E	629	9.2	2163	31.5
	4700	68.5	6863	100.0

YS011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	922			
	6267	91.3	6267	91.3
CORRECT ANSWER	596	8.7	6863	100.0

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YR012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	30			
B	855	11.0	855	11.0
C	84	1.1	939	12.1
D	68	0.9	1007	13.0
E	119	1.5	1126	14.5
	6629	85.5	7755	100.0

YS012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	30			
	1126	14.5	1126	14.5
CORRECT ANSWER	6629	85.5	7755	100.0

YR013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	114			
B	323	4.2	323	4.2
C	396	5.2	719	9.4
D	174	2.3	893	11.6
E	2007	26.2	2900	37.8
	4771	62.2	7671	100.0

YS013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	114			
	2900	37.8	2900	37.8
CORRECT ANSWER	4771	62.2	7671	100.0

YR014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	91			
B	340	4.4	340	4.4
C	420	5.5	760	9.9
D	5284	68.7	6044	78.6
E	805	10.5	6849	89.0
	845	11.0	7694	100.0

YS014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	91			
	2410	31.3	2410	31.3
CORRECT ANSWER	5284	68.7	7694	100.0

YR015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	66			
B	515	6.7	515	6.7
C	522	6.8	1037	13.4
D	357	4.6	1394	18.1
E	5730	74.2	7124	92.3
	595	7.7	7719	100.0

YS015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	66			
	1989	25.8	1989	25.8
CORRECT ANSWER	5730	74.2	7719	100.0

YR016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	111			
B	649	8.5	649	8.5
C	4784	62.3	5433	70.8
D	778	10.1	6211	80.9
E	982	12.8	7193	93.7
	481	6.3	7674	100.0

YS016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	111			
	2890	37.7	2890	37.7
CORRECT ANSWER	4784	62.3	7674	100.0

YR017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	201			
B	183	2.4	183	2.4
C	219	2.9	402	5.3
D	6341	83.6	6743	88.9
E	291	3.8	7034	92.7
	550	7.3	7584	100.0

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YS017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	201	16.4	1243	16.4
CORRECT ANSWER	1243	83.6	7584	100.0

YR018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	48	77.8	6022	77.8
B	6022	3.3	6274	81.1
C	252	7.3	6836	88.4
D	562	2.6	7041	91.0
E	696	9.0	7737	100.0

YS018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	48	22.2	1715	22.2
CORRECT ANSWER	1715	77.8	7737	100.0

YR019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	182	9.2	699	9.2
B	699	18.3	2094	27.5
C	1395	64.4	6988	91.9
D	4894	4.1	7302	96.0
E	314	4.0	7603	100.0

YS019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	182	35.6	2709	35.6
CORRECT ANSWER	2709	64.4	7603	100.0

YR020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	236	6.6	500	6.6
B	500	13.6	1528	20.2
C	1028	13.2	2527	33.5
D	999	60.3	7077	93.7
E	4550	6.3	7549	100.0

YS020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	236	39.7	2999	39.7
CORRECT ANSWER	2999	60.3	7549	100.0

YR021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	116	5.9	453	5.9
B	453	10.2	1239	16.2
C	786	14.1	2319	30.2
D	1080	17.1	3628	47.3
E	1309	52.7	7669	100.0

YS021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	116	47.3	3628	47.3
CORRECT ANSWER	3628	52.7	7669	100.0

YR022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	47	85.4	6611	85.4
B	6611	2.0	6768	87.5
C	157	10.6	7590	98.1
D	822	1.2	7679	99.2
E	89	0.8	7738	100.0

YS022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	47	14.6	1127	14.6
CORRECT ANSWER	1127	85.4	7738	100.0

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YR023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	205	3.1	233	3.1
B	233	5.0	611	8.1
C	378	8.3	1243	16.4
D	632	77.4	7111	93.8
E	5868	6.2	7580	100.0

YS023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	205	22.6	1712	22.6
CORRECT ANSWER	1712	77.4	7580	100.0

YR024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	246	1.9	144	1.9
B	144	6.9	662	8.8
C	518	8.7	1319	17.5
D	657	76.3	7068	93.8
E	5749	6.2	7539	100.0

YS024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	246	23.7	1790	23.7
CORRECT ANSWER	1790	76.3	7539	100.0

YR025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	40	41.6	3223	41.6
B	3223	49.2	7031	90.8
C	3808	5.5	7457	96.3
D	426	1.3	7561	97.6
E	104	2.4	7745	100.0

YS025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	40	50.8	3937	50.8
CORRECT ANSWER	3937	49.2	7745	100.0

YR026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	99	7.4	565	7.4
B	565	70.4	5973	77.7
C	5408	13.4	7003	91.1
D	1030	4.4	7344	95.6
E	341	4.4	7686	100.0

YS026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	99	29.6	2278	29.6
CORRECT ANSWER	2278	70.4	7686	100.0

YR027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	416	2.6	188	2.6
B	188	25.5	2065	28.0
C	1877	37.9	4859	65.9
D	2794	17.7	6162	83.6
E	1303	16.4	7369	100.0

YS027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	416	74.5	5492	74.5
CORRECT ANSWER	5492	25.5	7369	100.0

YR028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	139	10.1	769	10.1
B	769	3.6	1044	13.7
C	275	2.3	1217	15.9
D	173	82.3	7510	98.2
E	6293	1.8	7646	100.0

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YS028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	139	17.7	1353	17.7
CORRECT ANSWER	1353	82.3	7646	100.0

YR029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	415	36.1	2664	36.1
B	2664	9.5	3366	45.7
C	702	12.8	4311	58.5
D	945	7.6	4870	66.1
E	559	33.9	7370	100.0

YS029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	415	63.9	4706	63.9
CORRECT ANSWER	4706	36.1	7370	100.0

YR030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	114	11.9	913	11.9
B	913	2.8	1125	14.7
C	212	69.2	6434	83.9
D	5309	14.1	7519	98.0
E	1085	2.0	7671	100.0

YS030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	114	30.8	2362	30.8
CORRECT ANSWER	2362	69.2	7671	100.0

YR031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	43	3.0	229	3.0
B	229	8.3	869	11.2
C	640	4.0	1175	15.2
D	306	82.5	7559	97.6
E	6384	2.4	7742	100.0

YS031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	43	17.5	1358	17.5
CORRECT ANSWER	1358	82.5	7742	100.0

YR032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	111	2.0	157	2.0
B	157	8.4	805	10.5
C	648	3.1	1040	13.6
D	235	5.6	1467	19.1
E	427	80.9	7674	100.0

YS032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	111	19.1	1467	19.1
CORRECT ANSWER	1467	80.9	7674	100.0

YR033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	45	90.1	6974	90.1
B	6974	2.7	7181	92.8
C	207	1.9	7331	94.7
D	150	1.9	7481	96.7
E	150	3.3	7740	100.0

YS033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	45	9.9	766	9.9
CORRECT ANSWER	766	90.1	7740	100.0

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YR034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	50	1.1	83	1.1
B	83	4.2	405	5.2
C	322	89.1	7297	94.3
D	6892	4.5	7643	98.8
E	346	1.2	7735	100.0

YS034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	50	10.9	843	10.9
CORRECT ANSWER	843	89.1	7735	100.0

YR035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	104	3.1	235	3.1
B	235	71.9	5756	74.9
C	5521	3.8	6047	78.7
D	291	7.7	6640	86.4
E	593	13.6	7681	100.0

YS035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	104	28.1	2160	28.1
CORRECT ANSWER	2160	71.9	7681	100.0

YR036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	104	2.3	176	2.3
B	176	94.4	7429	96.7
C	7253	1.3	7527	98.0
D	98	1.0	7603	99.0
E	76	1.0	7681	100.0

YS036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	104	5.6	428	5.6
CORRECT ANSWER	428	94.4	7681	100.0

YR037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	200	49.8	3775	49.8
B	3775	18.6	5187	68.4
C	1412	6.3	5665	74.7
D	478	17.9	7026	92.6
E	1361	7.4	7585	100.0

YS037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	200	50.2	3810	50.2
CORRECT ANSWER	3810	49.8	7585	100.0

YR038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	105	5.9	452	5.9
B	452	9.1	1152	15.0
C	700	2.8	1369	17.8
D	217	11.2	2232	29.1
E	863	70.9	7680	100.0

YS038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	105	29.1	2232	29.1
CORRECT ANSWER	2232	70.9	7680	100.0

YR039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	34	3.0	231	3.0
B	231	3.5	505	6.5
C	274	3.4	771	9.9
D	266	1.7	901	11.6
E	130	88.4	7751	100.0

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YS039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	34 901	11.6	901	11.6
CORRECT ANSWER	6850	88.4	7751	100.0

YR040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	62			
B	339	4.4	339	4.4
C	6122	79.3	6461	83.7
D	524	6.8	6985	90.4
E	518	6.7	7503	97.2
	220	2.8	7723	100.0

YS040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	62 1601	20.7	1601	20.7
CORRECT ANSWER	6122	79.3	7723	100.0

YR041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5822			
B	1631	83.1	1631	83.1
C	162	8.3	1793	91.3
D	48	2.4	1841	93.8
E	92	4.7	1933	98.5
	30	1.5	1963	100.0

YS041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5822 332	16.9	332	16.9
CORRECT ANSWER	1631	83.1	1963	100.0

YR042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5879			
B	41	2.2	41	2.2
C	106	5.6	147	7.7
D	257	13.5	404	21.2
E	1383	72.6	1787	93.8
	119	6.2	1906	100.0

YS042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5879 523	27.4	523	27.4
CORRECT ANSWER	1383	72.6	1906	100.0

YR043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5854			
B	85	4.4	85	4.4
C	155	8.0	240	12.4
D	296	15.3	536	27.8
E	254	13.2	790	40.9
	1141	59.1	1931	100.0

YS043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5854 790	40.9	790	40.9
CORRECT ANSWER	1141	59.1	1931	100.0

YR044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5818			
B	107	5.4	107	5.4
C	1426	72.5	1533	77.9
D	326	16.6	1859	94.5
E	63	3.2	1922	97.7
	45	2.3	1967	100.0

YS044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5818 541	27.5	541	27.5
CORRECT ANSWER	1426	72.5	1967	100.0

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YR045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5861			
B	133	6.9	133	6.9
C	386	20.1	519	27.0
D	742	38.6	1261	65.5
E	255	13.5	1516	78.8
	408	21.2	1924	100.0

YS045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5861 1182	61.4	1182	61.4
CORRECT ANSWER	742	38.6	1924	100.0

YR046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5836			
B	392	20.1	392	20.1
C	162	8.3	554	28.4
D	79	4.1	633	32.5
E	1238	63.5	1871	96.0
	78	4.0	1949	100.0

YS046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5836 711	36.5	711	36.5
CORRECT ANSWER	1238	63.5	1949	100.0

YR047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5880			
B	317	16.6	317	16.6
C	216	11.3	533	28.0
D	1014	53.2	1547	81.2
E	87	4.6	1634	85.8
	271	14.2	1905	100.0

YS047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5880 891	46.8	891	46.8
CORRECT ANSWER	1014	53.2	1905	100.0

YR048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5852			
B	304	15.7	304	15.7
C	1162	60.1	1466	75.8
D	363	18.8	1829	94.6
E	51	2.6	1880	97.3
	53	2.7	1933	100.0

YS048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5852 771	39.9	771	39.9
CORRECT ANSWER	1162	60.1	1933	100.0

YR049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5822			
B	99	5.0	99	5.0
C	57	2.9	156	7.9
D	162	8.3	318	16.2
E	1547	78.8	1865	95.0
	98	5.0	1963	100.0

YS049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5822 416	21.2	416	21.2
CORRECT ANSWER	1547	78.8	1963	100.0

YR050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5804			
B	43	2.2	43	2.2
C	1589	80.2	1632	82.4
D	107	5.4	1739	87.8
E	71	3.6	1810	91.4
	171	8.6	1981	100.0

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YS050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5804			
	392	19.8	392	19.8
CORRECT ANSWER	1589	80.2	1981	100.0

YR051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5861			
B	118	6.1	118	6.1
C	427	22.2	545	28.3
D	451	23.4	996	51.8
E	95	4.9	1091	56.7
	833	43.3	1924	100.0

YS051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5861			
	1091	56.7	1091	56.7
CORRECT ANSWER	833	43.3	1924	100.0

YR052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5814			
B	1363	69.2	1363	69.2
C	79	4.0	1442	73.2
D	75	3.8	1517	77.0
E	364	18.5	1881	95.4
	90	4.6	1971	100.0

YS052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5814			
	608	30.8	608	30.8
CORRECT ANSWER	1363	69.2	1971	100.0

YR053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5884			
B	141	7.4	141	7.4
C	1244	65.4	1385	72.9
D	119	6.3	1504	79.1
E	110	5.8	1614	84.9
	287	15.1	1901	100.0

YS053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5884			
	657	34.6	657	34.6
CORRECT ANSWER	1244	65.4	1901	100.0

YR054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5897			
B	1457	77.2	1457	77.2
C	73	3.9	1530	81.0
D	150	7.9	1680	89.0
E	123	6.5	1803	95.5
	85	4.5	1888	100.0

YS054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5897			
	431	22.8	431	22.8
CORRECT ANSWER	1457	77.2	1888	100.0

YR055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5872			
B	96	5.0	96	5.0
C	227	11.9	323	16.9
D	238	12.4	561	29.3
E	373	19.5	934	48.8
	979	51.2	1913	100.0

YS055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5872			
	934	48.8	934	48.8
CORRECT ANSWER	979	51.2	1913	100.0

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YR056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5855			
B	58	3.0	58	3.0
C	312	16.2	370	19.2
D	1155	59.8	1525	79.0
E	224	11.6	1749	90.6
	181	9.4	1930	100.0

YS056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5855			
	775	40.2	775	40.2
CORRECT ANSWER	1155	59.8	1930	100.0

YR057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5835			
B	55	2.8	55	2.8
C	122	6.3	177	9.1
D	44	2.3	221	11.3
E	1552	79.6	1773	90.9
	177	9.1	1950	100.0

YS057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5835			
	398	20.4	398	20.4
CORRECT ANSWER	1552	79.6	1950	100.0

YR058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5881			
B	174	9.1	174	9.1
C	1136	59.7	1310	68.8
D	185	9.7	1495	78.5
E	200	10.5	1695	89.0
	209	11.0	1904	100.0

YS058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5881			
	768	40.3	768	40.3
CORRECT ANSWER	1136	59.7	1904	100.0

YR059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5893			
B	90	4.8	90	4.8
C	128	6.8	218	11.5
D	157	8.3	375	19.8
E	1021	54.0	1396	73.8
	496	26.2	1892	100.0

YS059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5893			
	871	46.0	871	46.0
CORRECT ANSWER	1021	54.0	1892	100.0

YR060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5862			
B	162	8.4	162	8.4
C	61	3.2	223	11.6
D	124	6.4	347	18.0
E	120	6.2	467	24.3
	1456	75.7	1923	100.0

YS060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5862			
	467	24.3	467	24.3
CORRECT ANSWER	1456	75.7	1923	100.0

YR061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5954			
B	1187	64.8	1187	64.8
C	240	13.1	1427	77.9
D	155	8.5	1582	86.4
E	100	5.5	1682	91.9
	149	8.1	1831	100.0

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YS061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5954			
CORRECT ANSWER	644	35.2	644	35.2
	1187	64.8	1831	100.0

YR062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5837			
B	144	7.4	144	7.4
C	177	9.1	321	16.5
D	1184	60.8	1505	77.3
E	100	5.1	1605	82.4
	343	17.6	1948	100.0

YS062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5837			
CORRECT ANSWER	764	39.2	764	39.2
	1184	60.8	1948	100.0

YR063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5890			
B	1157	61.1	1157	61.1
C	165	8.7	1322	69.8
D	189	10.0	1511	79.7
E	290	15.3	1801	95.0
	94	5.0	1895	100.0

YS063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5890			
CORRECT ANSWER	738	38.9	738	38.9
	1157	61.1	1895	100.0

YR064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5823			
B	1464	74.6	1464	74.6
C	37	1.9	1501	76.5
D	382	19.5	1883	96.0
E	62	3.2	1945	99.1
	17	0.9	1962	100.0

YS064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5823			
CORRECT ANSWER	498	25.4	498	25.4
	1464	74.6	1962	100.0

YR065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5824			
B	66	3.4	66	3.4
C	234	11.9	300	15.3
D	143	7.3	443	22.6
E	57	2.9	500	25.5
	1461	74.5	1961	100.0

YS065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5824			
CORRECT ANSWER	500	25.5	500	25.5
	1461	74.5	1961	100.0

YR066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5823			
B	73	3.7	73	3.7
C	1673	85.3	1746	89.0
D	49	2.5	1795	91.5
E	121	6.2	1916	97.7
	46	2.3	1962	100.0

YS066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5823			
CORRECT ANSWER	289	14.7	289	14.7
	1673	85.3	1962	100.0

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YR067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5810			
B	47	2.4	47	2.4
C	64	3.2	111	5.6
D	1619	82.0	1730	87.6
E	95	4.8	1825	92.4
	150	7.6	1975	100.0

YS067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5810			
CORRECT ANSWER	356	18.0	356	18.0
	1619	82.0	1975	100.0

YR068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5856			
B	24	1.2	24	1.2
C	34	1.8	58	3.0
D	30	1.6	88	4.6
E	60	3.1	148	7.7
	1781	92.3	1929	100.0

YS068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5856			
CORRECT ANSWER	148	7.7	148	7.7
	1781	92.3	1929	100.0

YR069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5845			
B	36	1.9	36	1.9
C	1728	89.1	1764	90.9
D	114	5.9	1878	96.8
E	36	1.9	1914	98.7
	26	1.3	1940	100.0

YS069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5845			
CORRECT ANSWER	212	10.9	212	10.9
	1728	89.1	1940	100.0

YR070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5825			
B	231	11.8	231	11.8
C	41	2.1	272	13.9
D	189	9.6	461	23.5
E	1305	66.6	1766	90.1
	194	9.9	1960	100.0

YS070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5825			
CORRECT ANSWER	655	33.4	655	33.4
	1305	66.6	1960	100.0

YR071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5826			
B	74	3.8	74	3.8
C	123	6.3	197	10.1
D	1468	74.9	1665	85.0
E	62	3.2	1727	88.2
	232	11.8	1959	100.0

YS071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5826			
CORRECT ANSWER	491	25.1	491	25.1
	1468	74.9	1959	100.0

YR072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5835			
B	92	4.7	92	4.7
C	138	7.1	230	11.8
D	268	13.7	498	25.5
E	1237	63.4	1735	89.0
	215	11.0	1950	100.0

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YS072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5835			
CORRECT ANSWER	713	36.6	713	36.6
	1237	63.4	1950	100.0

YR073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5812			
B	9	0.5	9	0.5
C	15	0.8	24	1.2
D	48	2.4	72	3.6
E	124	6.3	196	9.9
	1777	90.1	1973	100.0

YS073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5812			
CORRECT ANSWER	196	9.9	196	9.9
	1777	90.1	1973	100.0

YR074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5862			
B	833	43.3	833	43.3
C	661	34.4	1494	77.7
D	94	4.9	1588	82.6
E	251	13.1	1839	95.6
	84	4.4	1923	100.0

YS074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5862			
CORRECT ANSWER	1090	56.7	1090	56.7
	833	43.3	1923	100.0

YR075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5833			
B	108	5.5	108	5.5
C	168	8.6	276	14.1
D	1501	76.9	1777	91.0
E	104	5.3	1881	96.4
	71	3.6	1952	100.0

YS075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5833			
CORRECT ANSWER	451	23.1	451	23.1
	1501	76.9	1952	100.0

YR076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5858			
B	73	3.8	73	3.8
C	589	30.6	662	34.4
D	121	6.3	783	40.6
E	490	25.4	1273	66.1
	654	33.9	1927	100.0

YS076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5858			
CORRECT ANSWER	1273	66.1	1273	66.1
	654	33.9	1927	100.0

YR077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5818			
B	36	1.8	36	1.8
C	1516	77.1	1552	78.9
D	21	1.1	1573	80.0
E	382	19.4	1955	99.4
	12	0.6	1967	100.0

YS077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5818			
CORRECT ANSWER	451	22.9	451	22.9
	1516	77.1	1967	100.0

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YR078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5851			
B	444	23.0	444	23.0
C	747	38.6	1191	61.6
D	115	5.9	1306	67.5
E	517	26.7	1823	94.3
	111	5.7	1934	100.0

YS078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5851			
CORRECT ANSWER	1187	61.4	1187	61.4
	747	38.6	1934	100.0

YR079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5839			
B	77	4.0	77	4.0
C	346	17.7	421	21.6
D	97	5.0	518	26.6
E	1203	61.8	1721	88.4
	225	11.6	1946	100.0

YS079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5839			
CORRECT ANSWER	743	38.2	743	38.2
	1203	61.8	1946	100.0

YR080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5852			
B	116	6.0	116	6.0
C	131	6.8	247	12.8
D	1505	77.9	1752	90.6
E	123	6.4	1875	97.0
	58	3.0	1933	100.0

YS080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5852			
CORRECT ANSWER	428	22.1	428	22.1
	1505	77.9	1933	100.0

YR081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6164			
B	771	47.6	771	47.6
C	86	5.3	857	52.9
D	115	7.1	972	60.0
E	174	10.7	1146	70.7
	475	29.3	1621	100.0

YS081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6164			
CORRECT ANSWER	1447	89.3	1447	89.3
	174	10.7	1621	100.0

YR082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5869			
B	1071	55.9	1071	55.9
C	253	13.2	1324	69.1
D	59	3.1	1383	72.2
E	102	5.3	1485	77.5
	431	22.5	1916	100.0

YS082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5869			
CORRECT ANSWER	845	44.1	845	44.1
	1071	55.9	1916	100.0

YR083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5923			
B	267	14.3	267	14.3
C	243	13.1	510	27.4
D	146	7.8	656	35.2
E	222	11.9	878	47.2
	984	52.8	1862	100.0

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YS083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5923			
	878	47.2	878	47.2
CORRECT ANSWER	984	52.8	1862	100.0

YR084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6035			
B	261	14.9	261	14.9
C	793	45.3	1054	60.2
D	348	19.9	1402	80.1
E	210	12.0	1612	92.1
	138	7.9	1750	100.0

YS084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6035			
	957	54.7	957	54.7
CORRECT ANSWER	793	45.3	1750	100.0

YR085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5820			
B	66	3.4	66	3.4
C	409	20.8	475	24.2
D	19	1.0	494	25.1
E	1390	70.7	1884	95.9
	81	4.1	1965	100.0

YS085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5820			
	575	29.3	575	29.3
CORRECT ANSWER	1390	70.7	1965	100.0

YR086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5827			
B	1008	51.5	1008	51.5
C	825	42.1	1833	93.6
D	66	3.4	1899	97.0
E	50	2.6	1949	99.5
	9	0.5	1958	100.0

YS086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5827			
	950	48.5	950	48.5
CORRECT ANSWER	1008	51.5	1958	100.0

YR087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5866			
B	101	5.3	101	5.3
C	214	11.2	315	16.4
D	683	35.6	998	52.0
E	152	7.9	1150	59.9
	769	40.1	1919	100.0

YS087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5866			
	1236	64.4	1236	64.4
CORRECT ANSWER	683	35.6	1919	100.0

YR088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5831			
B	1356	69.4	1356	69.4
C	181	9.3	1537	78.7
D	85	4.4	1622	83.0
E	122	6.2	1744	89.3
	210	10.7	1954	100.0

YS088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5831			
	598	30.6	598	30.6
CORRECT ANSWER	1356	69.4	1954	100.0

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YR089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5825			
B	98	5.0	98	5.0
C	1644	83.9	1742	88.9
D	58	3.0	1800	91.8
E	112	5.7	1912	97.6
	48	2.4	1960	100.0

YS089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5825			
	316	16.1	316	16.1
CORRECT ANSWER	1644	83.9	1960	100.0

YR090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5875			
B	145	7.6	145	7.6
C	60	3.1	205	10.7
D	1317	69.0	1522	79.7
E	109	5.7	1631	85.4
	279	14.6	1910	100.0

YS090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5875			
	593	31.0	593	31.0
CORRECT ANSWER	1317	69.0	1910	100.0

YR091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5819			
B	7	0.4	7	0.4
C	34	1.7	41	2.1
D	68	3.5	109	5.5
E	37	1.9	146	7.4
	1820	92.6	1966	100.0

YS091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5819			
	146	7.4	146	7.4
CORRECT ANSWER	1820	92.6	1966	100.0

YR092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5941			
B	105	5.7	105	5.7
C	93	5.0	198	10.7
D	1349	73.2	1547	83.9
E	98	5.3	1645	89.2
	199	10.8	1844	100.0

YS092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5941			
	495	26.8	495	26.8
CORRECT ANSWER	1349	73.2	1844	100.0

YR093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6071			
B	431	25.1	431	25.1
C	204	11.9	635	37.0
D	466	27.2	1101	64.2
E	237	13.8	1338	78.1
	376	21.9	1714	100.0

YS093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6071			
	1283	74.9	1283	74.9
CORRECT ANSWER	431	25.1	1714	100.0

YR094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5942			
B	1301	70.6	1301	70.6
C	198	10.7	1499	81.3
D	166	9.0	1665	90.3
E	102	5.5	1767	95.9
	76	4.1	1843	100.0

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YS094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5942	29.4	542	29.4
CORRECT ANSWER	1301	70.6	1843	100.0

YR095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5820			
B	113	5.8	113	5.8
C	41	2.1	154	7.8
D	33	1.7	187	9.5
E	1730	88.0	1917	97.6
	48	2.4	1965	100.0

YS095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5820			
CORRECT ANSWER	235	12.0	235	12.0
	1730	88.0	1965	100.0

YR096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5877			
B	272	14.3	272	14.3
C	118	6.2	390	20.4
D	233	12.2	623	32.7
E	48	2.5	671	35.2
	1237	64.8	1908	100.0

YS096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5877			
CORRECT ANSWER	671	35.2	671	35.2
	1237	64.8	1908	100.0

YR097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5881			
B	139	7.3	139	7.3
C	673	35.3	812	42.6
D	958	50.3	1770	93.0
E	97	5.1	1867	98.1
	37	1.9	1904	100.0

YS097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5881			
CORRECT ANSWER	1231	64.7	1231	64.7
	673	35.3	1904	100.0

YR098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5879			
B	40	2.1	40	2.1
C	76	4.0	116	6.1
D	128	6.7	244	12.8
E	1553	81.5	1797	94.3
	109	5.7	1906	100.0

YS098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5879			
CORRECT ANSWER	353	18.5	353	18.5
	1553	81.5	1906	100.0

YR099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5889			
B	195	10.3	195	10.3
C	1329	70.1	1524	80.4
D	213	11.2	1737	91.6
E	57	3.0	1794	94.6
	102	5.4	1896	100.0

YS099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5889			
CORRECT ANSWER	567	29.9	567	29.9
	1329	70.1	1896	100.0

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YR100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5817			
B	238	12.1	238	12.1
C	953	48.4	1191	60.5
D	544	27.6	1735	88.2
E	128	6.5	1863	94.7
	105	5.3	1968	100.0

YS100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5817			
CORRECT ANSWER	1015	51.6	1015	51.6
	953	48.4	1968	100.0

YR101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5811			
B	1802	91.3	1802	91.3
C	50	2.5	1852	93.8
D	82	4.2	1934	98.0
E	17	0.9	1951	98.8
	23	1.2	1974	100.0

YS101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5811			
CORRECT ANSWER	172	8.7	172	8.7
	1802	91.3	1974	100.0

YR102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5841			
B	12	0.6	12	0.6
C	32	1.6	44	2.3
D	313	16.1	357	18.4
E	1496	77.0	1853	95.3
	91	4.7	1944	100.0

YS102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5841			
CORRECT ANSWER	448	23.0	448	23.0
	1496	77.0	1944	100.0

YR103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5821			
B	44	2.2	44	2.2
C	54	2.7	98	5.0
D	1737	88.4	1835	93.4
E	39	2.0	1874	95.4
	90	4.6	1964	100.0

YS103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5821			
CORRECT ANSWER	227	11.6	227	11.6
	1737	88.4	1964	100.0

YR104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5836			
B	77	4.0	77	4.0
C	342	17.5	419	21.5
D	126	6.5	545	28.0
E	65	3.3	610	31.3
	1339	68.7	1949	100.0

YS104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5836			
CORRECT ANSWER	610	31.3	610	31.3
	1339	68.7	1949	100.0

YR105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5854			
B	352	18.2	352	18.2
C	137	7.1	489	25.3
D	259	13.4	748	38.7
E	219	11.3	967	50.1
	964	49.9	1931	100.0

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YS105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5854			
CORRECT ANSWER	967	50.1	967	50.1
	964	49.9	1931	100.0

VR106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5901			
B	70	3.7	70	3.7
C	72	3.8	142	7.5
D	134	7.1	276	14.6
E	1501	79.7	1777	94.3
	107	5.7	1884	100.0

YS106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5901			
CORRECT ANSWER	383	20.3	383	20.3
	1501	79.7	1884	100.0

VR107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5846			
B	45	2.3	45	2.3
C	1637	84.4	1682	86.7
D	139	7.2	1821	93.9
E	61	3.1	1882	97.1
	57	2.9	1939	100.0

YS107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5846			
CORRECT ANSWER	302	15.6	302	15.6
	1637	84.4	1939	100.0

VR108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5833			
B	98	5.0	98	5.0
C	246	12.6	344	17.6
D	80	4.1	424	21.7
E	367	18.8	791	40.5
	1161	59.5	1952	100.0

YS108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5833			
CORRECT ANSWER	791	40.5	791	40.5
	1161	59.5	1952	100.0

VR109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5830			
B	44	2.3	44	2.3
C	1755	89.8	1799	92.0
D	79	4.0	1878	96.1
E	54	2.8	1932	98.8
	23	1.2	1955	100.0

YS109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5830			
CORRECT ANSWER	200	10.2	200	10.2
	1755	89.8	1955	100.0

VR110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5869			
B	213	11.1	213	11.1
C	136	7.1	349	18.2
D	1178	61.5	1527	79.7
E	198	10.3	1725	90.0
	191	10.0	1916	100.0

YS110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5869			
CORRECT ANSWER	738	38.5	738	38.5
	1178	61.5	1916	100.0

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YR111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5913			
B	1431	76.4	1431	76.4
C	100	5.3	1531	81.8
D	103	5.5	1634	87.3
E	134	7.2	1768	94.4
	104	5.6	1872	100.0

YS111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5913			
CORRECT ANSWER	441	23.6	441	23.6
	1431	76.4	1872	100.0

YR112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5860			
B	43	2.2	43	2.2
C	129	6.7	172	8.9
D	225	11.7	397	20.6
E	1241	64.5	1638	85.1
	287	14.9	1925	100.0

YS112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5860			
CORRECT ANSWER	684	35.5	684	35.5
	1241	64.5	1925	100.0

YR113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5841			
B	99	5.1	99	5.1
C	1411	72.6	1510	77.7
D	191	9.8	1701	87.5
E	21	1.1	1722	88.6
	222	11.4	1944	100.0

YS113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5841			
CORRECT ANSWER	533	27.4	533	27.4
	1411	72.6	1944	100.0

YR114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5870			
B	47	2.5	47	2.5
C	244	12.7	291	15.2
D	1071	55.9	1362	71.1
E	369	19.3	1731	90.4
	184	9.6	1915	100.0

YS114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5870			
CORRECT ANSWER	844	44.1	844	44.1
	1071	55.9	1915	100.0

YR115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5920			
B	180	9.7	180	9.7
C	232	12.4	412	22.1
D	79	4.2	491	26.3
E	127	6.8	618	33.1
	1247	66.9	1865	100.0

YS115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5920			
CORRECT ANSWER	618	33.1	618	33.1
	1247	66.9	1865	100.0

YR116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5929			
B	183	9.9	183	9.9
C	164	8.8	347	18.7
D	919	49.5	1266	68.2
E	373	20.1	1639	88.3
	217	11.7	1856	100.0

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YS116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5929			
CORRECT ANSWER	937	50.5	937	50.5
	919	49.5	1856	100.0

YR117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5944			
B	624	33.9	624	33.9
C	157	8.5	781	42.4
D	207	11.2	988	53.7
E	807	43.8	1795	97.5
	46	2.5	1841	100.0

YS117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5944			
CORRECT ANSWER	1034	56.2	1034	56.2
	807	43.8	1841	100.0

YR118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5976			
B	269	14.9	269	14.9
C	160	8.8	429	23.7
D	901	49.8	1330	73.5
E	128	7.1	1458	80.6
	351	19.4	1809	100.0

YS118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5976			
CORRECT ANSWER	908	50.2	908	50.2
	901	49.8	1809	100.0

YR119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5895			
B	152	8.0	152	8.0
C	87	4.6	239	12.6
D	116	6.1	355	18.8
E	1420	75.1	1775	93.9
	115	6.1	1890	100.0

YS119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5895			
CORRECT ANSWER	470	24.9	470	24.9
	1420	75.1	1890	100.0

YR120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5974			
B	244	13.5	244	13.5
C	724	40.0	968	53.5
D	292	16.1	1260	69.6
E	348	19.2	1608	88.8
	203	11.2	1811	100.0

YS120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5974			
CORRECT ANSWER	1087	60.0	1087	60.0
	724	40.0	1811	100.0

YR121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5881			
B	1216	63.9	1216	63.9
C	115	6.0	1331	69.9
D	282	14.8	1613	84.7
E	221	11.6	1834	96.3
	70	3.7	1904	100.0

YS121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5881			
CORRECT ANSWER	688	36.1	688	36.1
	1216	63.9	1904	100.0

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YR122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5890			
B	13	0.7	13	0.7
C	26	1.4	39	2.1
D	44	2.3	83	4.4
E	103	5.4	186	9.8
	1709	90.2	1895	100.0

YS122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5890			
CORRECT ANSWER	186	9.8	186	9.8
	1709	90.2	1895	100.0

YR123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5911			
B	893	47.7	893	47.7
C	162	8.6	1055	56.3
D	95	5.1	1150	61.4
E	76	4.1	1226	65.4
	648	34.6	1874	100.0

YS123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5911			
CORRECT ANSWER	981	52.3	981	52.3
	893	47.7	1874	100.0

YR124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5916			
B	1047	56.0	1047	56.0
C	266	14.2	1313	70.3
D	244	13.1	1557	83.3
E	214	11.4	1771	94.8
	98	5.2	1869	100.0

YS124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5916			
CORRECT ANSWER	822	44.0	822	44.0
	1047	56.0	1869	100.0

YR125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5919			
B	515	27.6	515	27.6
C	208	11.1	723	38.7
D	214	11.5	937	50.2
E	322	17.3	1259	67.5
	607	32.5	1866	100.0

YS125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5919			
CORRECT ANSWER	1351	72.4	1351	72.4
	515	27.6	1866	100.0

YR126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5891			
B	138	7.3	138	7.3
C	181	9.6	319	16.8
D	108	5.7	427	22.5
E	148	7.8	575	30.4
	1319	69.6	1894	100.0

YS126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5891			
CORRECT ANSWER	575	30.4	575	30.4
	1319	69.6	1894	100.0

YR127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5924			
B	75	4.0	75	4.0
C	285	15.3	360	19.3
D	289	15.5	649	34.9
E	998	53.6	1647	88.5
	214	11.5	1861	100.0

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YS127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5924			
	863	46.4	863	46.4
CORRECT ANSWER	998	53.6	1861	100.0

YR128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5852			
B	49	2.5	49	2.5
C	530	27.4	579	30.0
D	1268	65.6	1847	95.6
E	52	2.7	1899	98.2
	34	1.8	1933	100.0

YS128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5852			
	665	34.4	665	34.4
CORRECT ANSWER	1268	65.6	1933	100.0

YR129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5903			
B	209	11.1	209	11.1
C	236	12.5	445	23.6
D	295	15.7	740	39.3
E	810	43.0	1550	82.4
	332	17.6	1882	100.0

YS129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5903			
	1072	57.0	1072	57.0
CORRECT ANSWER	810	43.0	1882	100.0

YR130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5831			
B	75	3.8	75	3.8
C	1548	79.2	1623	83.1
D	220	11.3	1843	94.3
E	64	3.3	1907	97.6
	47	2.4	1954	100.0

YS130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5831			
	406	20.8	406	20.8
CORRECT ANSWER	1548	79.2	1954	100.0

YR131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5983			
B	386	21.4	386	21.4
C	139	7.7	525	29.1
D	156	8.7	681	37.8
E	1016	56.4	1697	94.2
	105	5.8	1802	100.0

YS131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5983			
	786	43.6	786	43.6
CORRECT ANSWER	1016	56.4	1802	100.0

YR132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5835			
B	110	5.6	110	5.6
C	62	3.2	172	8.8
D	55	2.8	227	11.6
E	30	1.5	257	13.2
	1693	86.8	1950	100.0

YS132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5835			
	257	13.2	257	13.2
CORRECT ANSWER	1693	86.8	1950	100.0

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YR133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5850			
B	272	13.9	272	13.9
C	1461	74.7	1733	88.6
D	173	8.8	1906	97.5
E	35	1.8	1941	99.3
	14	0.7	1955	100.0

YS133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5850			
	494	25.3	494	25.3
CORRECT ANSWER	1461	74.7	1955	100.0

YR134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5910			
B	78	4.2	78	4.2
C	312	16.6	390	20.8
D	982	52.4	1372	73.2
E	364	19.4	1736	92.6
	139	7.4	1875	100.0

YS134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5910			
	893	47.6	893	47.6
CORRECT ANSWER	982	52.4	1875	100.0

YR135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5940			
B	227	12.3	227	12.3
C	235	12.7	462	25.0
D	267	14.5	729	39.5
E	201	10.9	930	50.4
	915	49.6	1845	100.0

YS135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5940			
	930	50.4	930	50.4
CORRECT ANSWER	915	49.6	1845	100.0

YR136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5846			
B	655	33.8	655	33.8
C	214	11.0	869	44.8
D	330	17.0	1199	61.8
E	574	29.6	1773	91.4
	166	8.6	1939	100.0

YS136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5846			
	1284	66.2	1284	66.2
CORRECT ANSWER	655	33.8	1939	100.0

YR137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6031			
B	403	23.0	403	23.0
C	185	10.5	588	33.5
D	157	9.0	745	42.5
E	869	49.5	1614	92.0
	140	8.0	1754	100.0

YS137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6031			
	885	50.5	885	50.5
CORRECT ANSWER	869	49.5	1754	100.0

YR138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5953			
B	24	1.3	24	1.3
C	50	2.7	74	4.0
D	1661	90.7	1735	94.7
E	54	2.9	1789	97.7
	43	2.3	1832	100.0

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YS138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5953			
	171	9.3	171	9.3
CORRECT ANSWER	1661	90.7	1832	100.0

YR139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6170			
B	641	39.7	641	39.7
C	134	8.3	775	48.0
D	219	13.6	994	61.5
E	446	27.6	1440	89.2
	175	10.8	1615	100.0

YS139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6170			
	974	60.3	974	60.3
CORRECT ANSWER	641	39.7	1615	100.0

YR140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5966			
B	72	4.0	72	4.0
C	1274	70.0	1346	74.0
D	269	14.8	1615	88.8
E	52	2.9	1667	91.6
	152	8.4	1819	100.0

YS140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5966			
	545	30.0	545	30.0
CORRECT ANSWER	1274	70.0	1819	100.0

YR141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5974			
B	140	7.7	140	7.7
C	1222	67.5	1362	75.2
D	116	6.4	1478	81.6
E	43	2.4	1521	84.0
	290	16.0	1811	100.0

YS141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5974			
	589	32.5	589	32.5
CORRECT ANSWER	1222	67.5	1811	100.0

YR142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6027			
B	87	4.9	87	4.9
C	198	11.3	285	16.2
D	164	9.3	449	25.5
E	363	20.6	812	46.2
	946	53.8	1758	100.0

YS142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6027			
	812	46.2	812	46.2
CORRECT ANSWER	946	53.8	1758	100.0

YR143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5974			
B	1187	65.5	1187	65.5
C	380	21.0	1567	86.5
D	115	6.4	1682	92.9
E	71	3.9	1753	96.8
	58	3.2	1811	100.0

YS143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5974			
	624	34.5	624	34.5
CORRECT ANSWER	1187	65.5	1811	100.0

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YR144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5974			
B	55	3.0	55	3.0
C	95	5.2	150	8.3
D	135	7.5	285	15.7
E	1352	74.7	1637	90.4
	174	9.6	1811	100.0

YS144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5974			
	459	25.3	459	25.3
CORRECT ANSWER	1352	74.7	1811	100.0

YR145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6328			
B	101	6.9	101	6.9
C	181	12.4	282	19.4
D	399	27.4	681	46.7
E	409	28.1	1090	74.8
	367	25.2	1457	100.0

YS145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6328			
	1090	74.8	1090	74.8
CORRECT ANSWER	367	25.2	1457	100.0

YR146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5943			
B	44	2.4	44	2.4
C	87	4.7	131	7.1
D	366	19.9	497	27.0
E	1254	68.1	1751	95.1
	91	4.9	1842	100.0

YS146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5943			
	588	31.9	588	31.9
CORRECT ANSWER	1254	68.1	1842	100.0

YR147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5949			
B	188	10.2	188	10.2
C	1177	64.1	1365	74.3
D	88	4.8	1453	79.1
E	213	11.6	1666	90.7
	170	9.3	1836	100.0

YS147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5949			
	659	35.9	659	35.9
CORRECT ANSWER	1177	64.1	1836	100.0

YR148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6054			
B	118	6.8	118	6.8
C	170	9.8	288	16.6
D	81	4.7	369	21.3
E	271	15.7	640	37.0
	1091	63.0	1731	100.0

YS148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6054			
	640	37.0	640	37.0
CORRECT ANSWER	1091	63.0	1731	100.0

YR149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5999			
B	102	5.7	102	5.7
C	139	7.8	241	13.5
D	1362	76.3	1603	89.8
E	80	4.5	1683	94.2
	103	5.8	1786	100.0

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YS149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5999			
CORRECT ANSWER	424	23.7	424	23.7
	1362	76.3	1786	100.0

YS150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5982			
B	313	17.4	313	17.4
C	1269	70.4	1582	87.7
D	75	4.2	1657	91.9
E	98	5.4	1755	97.3
	48	2.7	1803	100.0

YS150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5982			
CORRECT ANSWER	534	29.6	534	29.6
	1269	70.4	1803	100.0

YS151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6011			
B	1078	60.8	1078	60.8
C	222	12.5	1300	73.3
D	170	9.6	1470	82.9
E	126	7.1	1596	90.0
	178	10.0	1774	100.0

YS151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6011			
CORRECT ANSWER	696	39.2	696	39.2
	1078	60.8	1774	100.0

YS152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5977			
B	24	1.3	24	1.3
C	40	2.2	64	3.5
D	1572	86.9	1636	90.5
E	35	1.9	1671	92.4
	137	7.6	1808	100.0

YS152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5977			
CORRECT ANSWER	236	13.1	236	13.1
	1572	86.9	1808	100.0

YS153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5962			
B	57	3.1	57	3.1
C	190	10.4	247	13.5
D	358	19.6	605	33.2
E	58	3.2	663	36.4
	1160	63.6	1823	100.0

YS153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5962			
CORRECT ANSWER	663	36.4	663	36.4
	1160	63.6	1823	100.0

YS154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5990			
B	102	5.7	102	5.7
C	1257	70.0	1359	75.7
D	253	14.1	1612	89.8
E	87	4.8	1699	94.7
	96	5.3	1795	100.0

YS154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5990			
CORRECT ANSWER	538	30.0	538	30.0
	1257	70.0	1795	100.0

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YS155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5976			
B	71	3.9	71	3.9
C	150	8.3	221	12.2
D	55	3.0	276	15.3
E	1474	81.5	1750	96.7
	59	3.3	1809	100.0

YS155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5976			
CORRECT ANSWER	335	18.5	335	18.5
	1474	81.5	1809	100.0

YS156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5998			
B	248	13.9	248	13.9
C	75	4.2	323	18.1
D	1281	71.7	1604	89.8
E	95	5.3	1699	95.1
	88	4.9	1787	100.0

YS156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5998			
CORRECT ANSWER	506	28.3	506	28.3
	1281	71.7	1787	100.0

YS157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	6043			
B	172	9.9	172	9.9
C	161	9.2	333	19.1
D	186	10.7	519	29.8
E	75	4.3	594	34.1
	1148	65.9	1742	100.0

YS157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6043			
CORRECT ANSWER	594	34.1	594	34.1
	1148	65.9	1742	100.0

YS158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5990			
B	58	3.8	58	3.8
C	1477	82.3	1535	86.1
D	89	5.0	1624	91.0
E	124	6.9	1748	97.9
	37	2.1	1785	100.0

YS158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5990			
CORRECT ANSWER	318	17.7	318	17.7
	1477	82.3	1795	100.0

YS159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5935			
B	1	0.1	1	0.1
C	21	1.1	22	1.2
D	52	2.8	74	4.0
E	152	8.2	226	12.2
	1624	87.8	1850	100.0

YS160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5972			
CORRECT ANSWER	315	17.4	315	17.4
	1498	82.6	1813	100.0

YS160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
A	5972			
B	112	6.2	112	6.2
C	70	3.9	182	10.0
D	69	3.8	251	13.8
E	1498	82.6	1749	96.5
	64	3.5	1813	100.0

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YS159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5935			
	226	12.2	226	12.2
CORRECT ANSWER	1624	87.8	1850	100.0

YR161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5988			
A	1193	66.4	1193	66.4
B	230	12.8	1423	79.2
C	132	7.3	1555	86.5
D	165	9.2	1720	95.7
E	77	4.3	1797	100.0

YS161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5988			
	604	33.6	604	33.6
CORRECT ANSWER	1193	66.4	1797	100.0

YR162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5946			
A	29	1.6	29	1.6
B	101	5.5	130	7.1
C	1483	80.6	1613	87.7
D	131	7.1	1744	94.8
E	95	5.2	1839	100.0

YS162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5946			
	356	19.4	356	19.4
CORRECT ANSWER	1483	80.6	1839	100.0

YR163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5949			
A	19	1.0	19	1.0
B	915	49.8	934	50.9
C	802	43.7	1736	94.6
D	53	2.9	1789	97.4
E	47	2.6	1836	100.0

YS163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5949			
	921	50.2	921	50.2
CORRECT ANSWER	915	49.8	1836	100.0

YR164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5942			
A	1661	90.1	1661	90.1
B	104	5.6	1765	95.8
C	14	0.8	1779	96.5
D	35	1.9	1814	98.4
E	29	1.6	1843	100.0

YS164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5942			
	182	9.9	182	9.9
CORRECT ANSWER	1661	90.1	1843	100.0

YR165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5962			
A	118	6.5	118	6.5
B	97	5.3	215	11.8
C	198	10.9	413	22.7
D	1271	69.7	1684	92.4
E	139	7.6	1823	100.0

YS165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5962			
	552	30.3	552	30.3
CORRECT ANSWER	1271	69.7	1823	100.0

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YR166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5959			
A	34	1.9	34	1.9
B	29	1.6	63	3.5
C	103	5.6	166	9.1
D	688	37.7	854	46.8
E	972	53.2	1826	100.0

YS166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5959			
	854	46.8	854	46.8
CORRECT ANSWER	972	53.2	1826	100.0

YR167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5945			
A	73	4.0	73	4.0
B	71	3.9	144	7.8
C	202	11.0	346	18.8
D	1396	75.9	1742	94.7
E	98	5.3	1840	100.0

YS167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5945			
	444	24.1	444	24.1
CORRECT ANSWER	1396	75.9	1840	100.0

YR168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5953			
A	647	35.3	647	35.3
B	472	25.8	1119	61.1
C	40	2.2	1159	63.3
D	658	35.9	1817	99.2
E	15	0.8	1832	100.0

YS168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5953			
	1185	64.7	1185	64.7
CORRECT ANSWER	647	35.3	1832	100.0

YR169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5849			
A	663	34.2	663	34.2
B	217	11.2	880	45.5
C	552	28.5	1432	74.0
D	275	14.2	1707	88.2
E	229	11.8	1936	100.0

YS169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5849			
	1384	71.5	1384	71.5
CORRECT ANSWER	552	28.5	1936	100.0

YR170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6412			
A	305	22.2	305	22.2
B	462	33.6	767	55.9
C	219	16.0	986	71.8
D	171	12.5	1157	84.3
E	216	15.7	1373	100.0

YS170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6412			
	911	66.4	911	66.4
CORRECT ANSWER	462	33.6	1373	100.0

YR171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6274			
A	252	16.7	252	16.7
B	297	19.7	549	36.3
C	301	19.9	850	56.3
D	360	23.8	1210	80.1
E	301	19.9	1511	100.0

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YS171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6274			
	1214	80.3	1214	80.3
CORRECT ANSWER	297	19.7	1511	100.0

YR172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5979			
A	66	3.7	66	3.7
B	116	6.4	182	10.1
C	198	11.0	380	21.0
D	228	12.6	608	33.7
E	1198	66.3	1806	100.0

YS172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5979			
	1608	89.0	1608	89.0
CORRECT ANSWER	198	11.0	1806	100.0

YR173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6137			
A	635	38.5	635	38.5
B	220	13.3	855	51.9
C	219	13.3	1074	65.2
D	239	14.5	1313	79.7
E	335	20.3	1648	100.0

YS173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	6137			
	1409	85.5	1409	85.5
CORRECT ANSWER	239	14.5	1648	100.0

YR174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5944			
A	198	10.8	198	10.8
B	267	14.5	465	25.3
C	67	3.6	532	28.9
D	1207	65.6	1739	94.5
E	102	5.5	1841	100.0

YS174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5944			
	634	34.4	634	34.4
CORRECT ANSWER	1207	65.6	1841	100.0

YR175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5959			
A	142	7.8	142	7.8
B	143	7.8	285	15.6
C	615	33.7	900	49.3
D	327	17.9	1227	67.2
E	599	32.8	1826	100.0

YS175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5959			
	1227	67.2	1227	67.2
CORRECT ANSWER	599	32.8	1826	100.0

YR176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	5968			
A	520	28.6	520	28.6
B	679	37.4	1199	66.0
C	117	6.4	1316	72.4
D	97	5.3	1413	77.8
E	404	22.2	1817	100.0

YS176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INCORRECT ANSWER	5968			
	1138	62.6	1138	62.6
CORRECT ANSWER	679	37.4	1817	100.0

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X0002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	146			
PREVIOUS YEARS	141	1.8	141	1.8
NEVER	5760	75.4	5901	77.3
	1737	22.7	7638	100.0

X0003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	45			
PREVIOUS YEARS	100	1.3	100	1.3
NEVER	7626	98.5	7726	99.8
	13	0.2	7739	100.0

X0006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	113			
PREVIOUS YEARS	38	0.5	38	0.5
NEVER	6688	87.2	6726	87.7
	945	12.3	7671	100.0

X0007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	238			
PREVIOUS YEARS	47	0.6	47	0.6
NEVER	6678	88.5	6725	89.1
	821	10.9	7546	100.0

X0008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	81			
PREVIOUS YEARS	21	0.3	21	0.3
NEVER	7643	99.2	7664	99.5
	39	0.5	7703	100.0

X0009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	153			
PREVIOUS YEARS	24	0.3	24	0.3
NEVER	6922	90.7	6946	91.0
	685	9.0	7631	100.0

X0010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	131			
PREVIOUS YEARS	5935	77.6	5935	77.6
NEVER	515	6.7	6450	84.3
	1203	15.7	7653	100.0

X0013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	106			
PREVIOUS YEARS	1059	13.8	1059	13.8
NEVER	4870	63.4	5929	77.2
	1749	22.8	7678	100.0

X0014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	232			
PREVIOUS YEARS	866	11.5	866	11.5
NEVER	3040	40.3	3906	51.7
	3646	48.3	7552	100.0

X0015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	281			
PREVIOUS YEARS	177	2.4	177	2.4
NEVER	1225	16.3	1402	18.7
	6101	81.3	7503	100.0

X0016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	221			
PREVIOUS YEARS	185	2.4	185	2.4
NEVER	3389	44.8	3574	47.3
	3989	52.7	7563	100.0

X0017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	215			
PREVIOUS YEARS	107	1.4	107	1.4
NEVER	1064	14.1	1171	15.5
	6398	84.5	7569	100.0

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X0018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	232			
PREVIOUS YEARS	134	1.8	134	1.8
NEVER	2241	29.7	2375	31.4
	5177	68.6	7552	100.0

X0019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	245			
PREVIOUS YEARS	394	5.2	394	5.2
NEVER	3599	47.7	3993	53.0
	3546	47.0	7539	100.0

X0022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	93			
PREVIOUS YEARS	126	1.6	126	1.6
NEVER	6717	87.3	6843	89.0
	848	11.0	7691	100.0

X0023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	282			
PREVIOUS YEARS	123	1.6	123	1.6
NEVER	4155	55.4	4278	57.0
	3224	43.0	7502	100.0

X0026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	234			
PREVIOUS YEARS	56	0.7	56	0.7
NEVER	6465	85.6	6521	86.4
	1029	13.6	7550	100.0

X0028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	190			
PREVIOUS YEARS	234	3.1	234	3.1
NEVER	1218	16.0	1452	19.1
	6142	80.9	7594	100.0

X0029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	407			
PREVIOUS YEARS	129	1.7	129	1.7
NEVER	812	11.0	941	12.8
	6436	87.2	7377	100.0

X0031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	105			
PREVIOUS YEARS	43	0.6	43	0.6
NEVER	6837	89.0	6880	89.6
	799	10.4	7679	100.0

X0038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	82			
PREVIOUS YEARS	69	0.9	69	0.9
NEVER	7255	94.2	7324	95.1
	378	4.9	7702	100.0

X0040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	250			
PREVIOUS YEARS	23	0.3	23	0.3
NEVER	7234	96.0	7257	96.3
	277	3.7	7534	100.0

X0044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	102			
PREVIOUS YEARS	65	0.8	65	0.8
NEVER	7309	95.1	7374	96.0
	308	4.0	7682	100.0

X0046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	186			
PREVIOUS YEARS	38	0.5	38	0.5
NEVER	7327	96.4	7365	96.9
	233	3.1	7598	100.0

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X0047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	229	0.5	38	0.5
PREVIOUS YEARS	5865	77.6	5903	78.1
NEVER	1652	21.9	7555	100.0

X0053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	307	1.6	117	1.6
PREVIOUS YEARS	1172	15.7	1289	17.2
NEVER	6188	82.8	7477	100.0

X0055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	304	3.7	274	3.7
PREVIOUS YEARS	274	18.2	1634	21.8
NEVER	5846	78.2	7480	100.0

X0059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	169	0.6	45	0.6
PREVIOUS YEARS	45	75.7	5808	76.3
NEVER	5763	23.7	7615	100.0

X0061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	452	10.7	786	10.7
PREVIOUS YEARS	786	18.6	2151	29.3
NEVER	5181	70.7	7332	100.0

X0069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	207	0.6	43	0.6
PREVIOUS YEARS	43	57.4	4393	58.0
NEVER	4350	42.0	7577	100.0

X0070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	107	0.2	13	0.2
PREVIOUS YEARS	13	97.9	7532	98.1
NEVER	7519	1.9	7677	100.0

X0071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	230	0.5	35	0.5
PREVIOUS YEARS	35	88.0	6685	88.5
NEVER	6650	11.5	7554	100.0

X0072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	506	0.6	42	0.6
PREVIOUS YEARS	42	87.5	6407	88.0
NEVER	6365	12.0	7278	100.0

X0074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	210	3.2	242	3.2
PREVIOUS YEARS	242	58.3	3143	41.5
NEVER	2901	58.5	7574	100.0

X0075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	109	0.4	32	0.4
PREVIOUS YEARS	32	96.6	7444	97.0
NEVER	7412	3.0	7675	100.0

X0078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	264	0.4	31	0.4
PREVIOUS YEARS	31	94.2	7114	94.6
NEVER	7083	5.4	7520	100.0

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X0079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	144	0.2	18	0.2
PREVIOUS YEARS	18	96.8	7411	97.0
NEVER	7393	3.0	7640	100.0

X0080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	166	81.9	6237	81.9
PREVIOUS YEARS	6237	7.1	6781	89.0
NEVER	544	11.0	7618	100.0

X0082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	100	25.8	1979	25.8
PREVIOUS YEARS	1979	60.6	6635	86.3
NEVER	4656	13.7	7684	100.0

X0086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	232	1.7	126	1.7
PREVIOUS YEARS	126	16.2	1348	17.8
NEVER	1222	82.2	7552	100.0

X0099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	456	0.5	38	0.5
PREVIOUS YEARS	38	77.8	5739	78.3
NEVER	5701	21.7	7328	100.0

X0108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	60	0.4	33	0.4
PREVIOUS YEARS	33	97.9	7594	98.3
NEVER	7561	1.7	7724	100.0

X0110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	140	0.4	28	0.4
PREVIOUS YEARS	28	92.0	7062	92.4
NEVER	7034	7.6	7644	100.0

X0113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	118	13.6	1046	13.6
PREVIOUS YEARS	1046	44.2	4435	57.9
NEVER	3389	42.1	7666	100.0

X0120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	168	55.3	4215	55.3
PREVIOUS YEARS	4215	3.8	4504	59.1
NEVER	289	40.9	7616	100.0

X0124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	252	2.2	164	2.2
PREVIOUS YEARS	164	39.7	3153	41.9
NEVER	2989	58.1	7532	100.0

X0129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	7784	100.0	7784	100.0

X0137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	304	37.1	2773	37.1
PREVIOUS YEARS	2773	6.2	3236	43.3
NEVER	463	56.7	7480	100.0

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X0139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	219			
PREVIOUS YEARS	37	0.5	37	0.5
NEVER	1116	14.8	1153	15.2
	6412	84.8	7565	100.0

X0142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	363			
PREVIOUS YEARS	34	0.5	34	0.5
NEVER	6766	91.2	6800	91.6
	621	8.4	7421	100.0

X0143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	145			
PREVIOUS YEARS	41	0.5	41	0.5
NEVER	5848	76.6	5889	77.1
	1750	22.9	7639	100.0

X0153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	129			
PREVIOUS YEARS	1386	18.1	1386	18.1
NEVER	5361	70.0	6747	88.1
	908	11.9	7655	100.0

X0155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	179			
PREVIOUS YEARS	65	0.9	65	0.9
NEVER	3550	46.7	3615	47.5
	3990	52.5	7605	100.0

X0159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	89			
PREVIOUS YEARS	344	4.5	344	4.5
NEVER	6001	78.0	6345	82.5
	1350	17.5	7695	100.0

X0160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	121			
PREVIOUS YEARS	50	0.7	50	0.7
NEVER	7359	96.0	7409	96.7
	254	3.3	7663	100.0

X0161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	230			
PREVIOUS YEARS	52	0.7	52	0.7
NEVER	6933	91.8	6985	92.5
	569	7.5	7554	100.0

X0162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	145			
PREVIOUS YEARS	29	0.4	29	0.4
NEVER	7333	96.0	7362	96.4
	277	3.6	7639	100.0

X0167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	352			
PREVIOUS YEARS	41	0.6	41	0.6
NEVER	5698	76.7	5739	77.2
	1695	22.8	7432	100.0

X0168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	139			
PREVIOUS YEARS	44	0.6	44	0.6
NEVER	6814	89.1	6858	89.7
	787	10.3	7645	100.0

X0174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	77			
PREVIOUS YEARS	69	0.9	69	0.9
NEVER	6418	83.3	6487	84.2
	1220	15.8	7707	100.0

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Y0001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	86			
PREVIOUS YEARS	665	8.6	665	8.6
NEVER	6954	90.3	7619	99.0
	79	1.0	7698	100.0

Y0002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	130			
PREVIOUS YEARS	466	6.1	466	6.1
NEVER	6505	85.0	6971	91.1
	683	8.9	7654	100.0

Y0003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	64			
PREVIOUS YEARS	385	5.0	385	5.0
NEVER	7316	94.8	7701	99.8
	19	0.2	7720	100.0

Y0004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	64			
PREVIOUS YEARS	567	7.3	567	7.3
NEVER	6928	89.7	7495	97.1
	225	2.9	7720	100.0

Y0005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	100			
PREVIOUS YEARS	251	3.3	251	3.3
NEVER	7381	96.1	7632	99.3
	52	0.7	7684	100.0

Y0006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	114			
PREVIOUS YEARS	824	10.7	824	10.7
NEVER	6626	86.4	7450	97.1
	220	2.9	7670	100.0

Y0007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	231			
PREVIOUS YEARS	571	8.9	671	8.9
NEVER	5915	78.3	6586	87.2
	967	12.8	7553	100.0

Y0008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	77			
PREVIOUS YEARS	1303	16.9	1303	16.9
NEVER	6332	82.2	7635	99.1
	72	0.9	7707	100.0

Y0009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	224			
PREVIOUS YEARS	661	8.7	661	8.7
NEVER	6226	82.4	6887	91.1
	673	8.9	7560	100.0

Y0010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	91			
PREVIOUS YEARS	6675	86.8	6675	86.8
NEVER	962	12.5	7637	99.3
	56	0.7	7693	100.0

Y0011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	229			
PREVIOUS YEARS	346	4.6	346	4.6
NEVER	2291	30.3	2637	34.9
	4918	65.1	7555	100.0

Y0012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	64			
PREVIOUS YEARS	7150	92.6	7150	92.6
NEVER	547	7.1	7697	99.7
	23	0.3	7720	100.0

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Y0013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	136			
PREVIOUS YEARS	4365	57.1	4365	57.1
NEVER	3078	40.2	7443	97.3
	205	2.7	7648	100.0

Y0014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	62			
PREVIOUS YEARS	3932	50.9	3932	50.9
NEVER	3437	44.5	7369	95.4
	353	4.6	7722	100.0

Y0015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	61			
PREVIOUS YEARS	7110	92.1	7110	92.1
NEVER	446	5.8	7556	97.8
	167	2.2	7723	100.0

Y0016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	119			
PREVIOUS YEARS	5276	68.8	5276	68.8
NEVER	2156	28.1	7432	97.0
	233	3.0	7665	100.0

Y0017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	96			
PREVIOUS YEARS	4193	54.5	4193	54.5
NEVER	2406	31.3	6599	85.8
	1089	14.2	7688	100.0

Y0018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	76			
PREVIOUS YEARS	6796	88.2	6796	88.2
NEVER	818	10.6	7614	98.8
	94	1.2	7708	100.0

Y0019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	228			
PREVIOUS YEARS	4520	59.8	4520	59.8
NEVER	2668	35.3	7188	95.1
	368	4.9	7556	100.0

Y0020	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	129			
PREVIOUS YEARS	6002	78.4	6002	78.4
NEVER	995	13.0	6997	91.4
	658	8.6	7655	100.0

Y0021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	146			
PREVIOUS YEARS	928	12.1	928	12.1
NEVER	6451	84.5	7379	96.6
	259	3.4	7638	100.0

Y0022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	82			
PREVIOUS YEARS	2990	38.8	2990	38.8
NEVER	4447	57.7	7437	96.6
	265	3.4	7702	100.0

Y0023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	173			
PREVIOUS YEARS	5349	70.3	5349	70.3
NEVER	1893	24.9	7242	95.2
	369	4.8	7611	100.0

Y0024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	220			
PREVIOUS YEARS	1169	15.5	1169	15.5
NEVER	5929	78.4	7098	93.8
	466	6.2	7564	100.0

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Y0025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	77			
PREVIOUS YEARS	1269	16.5	1269	16.5
NEVER	6316	82.0	7585	98.4
	122	1.6	7707	100.0

Y0026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	92			
PREVIOUS YEARS	508	6.6	508	6.6
NEVER	6761	87.9	7269	94.5
	423	5.5	7692	100.0

Y0027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	134			
PREVIOUS YEARS	1058	13.8	1058	13.8
NEVER	3524	46.1	4582	59.9
	3068	40.1	7650	100.0

Y0028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	187			
PREVIOUS YEARS	6799	89.5	6799	89.5
NEVER	363	4.8	7162	94.3
	435	5.7	7597	100.0

Y0029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	258			
PREVIOUS YEARS	5746	76.3	5746	76.3
NEVER	710	9.4	6456	85.8
	1070	14.2	7526	100.0

Y0030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	71			
PREVIOUS YEARS	2059	26.7	2059	26.7
NEVER	5008	64.9	7067	91.6
	646	8.4	7713	100.0

Y0031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	57			
PREVIOUS YEARS	1581	20.5	1581	20.5
NEVER	6015	77.8	7596	98.3
	131	1.7	7727	100.0

Y0032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	74			
PREVIOUS YEARS	473	6.1	473	6.1
NEVER	6508	84.4	6981	90.5
	729	9.5	7710	100.0

Y0033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	76			
PREVIOUS YEARS	304	3.9	304	3.9
NEVER	7129	92.5	7433	96.4
	275	3.6	7708	100.0

Y0034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	79			
PREVIOUS YEARS	247	3.2	247	3.2
NEVER	7239	94.0	7486	97.2
	219	2.8	7705	100.0

Y0035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	118			
PREVIOUS YEARS	504	6.6	504	6.6
NEVER	6974	91.0	7478	97.5
	188	2.5	7666	100.0

Y0036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	166			
PREVIOUS YEARS	253	3.3	253	3.3
NEVER	5453	71.6	5706	74.9
	1912	25.1	7618	100.0

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Y0037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	139			
PREVIOUS YEARS	1360	17.8	1360	17.8
NEVER	5326	69.7	6686	87.5
	959	12.5	7645	100.0

Y0038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	165			
PREVIOUS YEARS	778	10.2	778	10.2
NEVER	6699	87.9	7477	98.1
	142	1.9	7619	100.0

Y0039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	50			
PREVIOUS YEARS	774	10.0	774	10.0
NEVER	6912	89.4	7686	99.4
	48	0.6	7734	100.0

Y0040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	74			
PREVIOUS YEARS	444	5.8	444	5.8
NEVER	7156	92.8	7600	98.6
	110	1.4	7710	100.0

Y0041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5834			
PREVIOUS YEARS	57	2.9	57	2.9
NEVER	1870	95.9	1927	98.8
	23	1.2	1950	100.0

Y0042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5896			
PREVIOUS YEARS	78	4.1	78	4.1
NEVER	1751	92.7	1829	96.9
	59	3.1	1888	100.0

Y0043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5832			
PREVIOUS YEARS	625	32.0	625	32.0
NEVER	1237	63.4	1862	95.4
	90	4.6	1952	100.0

Y0044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5817			
PREVIOUS YEARS	168	8.5	168	8.5
NEVER	1773	90.1	1941	98.7
	26	1.3	1967	100.0

Y0045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5856			
PREVIOUS YEARS	131	6.8	131	6.8
NEVER	1655	85.8	1786	92.6
	142	7.4	1928	100.0

Y0046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5833			
PREVIOUS YEARS	182	9.3	182	9.3
NEVER	1726	88.5	1908	97.8
	43	2.2	1951	100.0

Y0047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5855			
PREVIOUS YEARS	353	18.3	353	18.3
NEVER	1345	69.7	1698	88.0
	231	12.0	1929	100.0

Y0048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5835			
PREVIOUS YEARS	1390	71.3	1390	71.3
NEVER	292	15.0	1682	86.3
	267	13.7	1949	100.0

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Y0049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5827			
PREVIOUS YEARS	1694	86.6	1694	86.6
NEVER	218	11.1	1912	97.7
	45	2.3	1957	100.0

Y0050	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5822			
PREVIOUS YEARS	124	6.3	124	6.3
NEVER	1809	92.2	1933	98.5
	29	1.5	1962	100.0

Y0051	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5835			
PREVIOUS YEARS	867	44.5	867	44.5
NEVER	786	40.3	1653	84.8
	296	15.2	1949	100.0

Y0052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5807			
PREVIOUS YEARS	1262	63.8	1262	63.8
NEVER	635	32.1	1897	96.0
	80	4.0	1977	100.0

Y0053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5872			
PREVIOUS YEARS	1418	74.2	1418	74.2
NEVER	383	20.0	1801	94.2
	111	5.8	1912	100.0

Y0054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5882			
PREVIOUS YEARS	1133	59.6	1133	59.6
NEVER	613	32.2	1746	91.8
	156	8.2	1902	100.0

Y0055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5849			
PREVIOUS YEARS	1402	72.5	1402	72.5
NEVER	403	20.8	1805	93.3
	130	6.7	1935	100.0

Y0056	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5839			
PREVIOUS YEARS	1369	70.4	1369	70.4
NEVER	422	21.7	1791	92.1
	154	7.9	1945	100.0

Y0057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5828			
PREVIOUS YEARS	252	12.9	252	12.9
NEVER	1595	81.5	1847	94.4
	109	5.6	1956	100.0

Y0058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5833			
PREVIOUS YEARS	936	48.0	936	48.0
NEVER	719	36.9	1655	84.8
	296	15.2	1951	100.0

Y0059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5884			
PREVIOUS YEARS	596	31.4	596	31.4
NEVER	1140	60.0	1736	91.4
	164	8.6	1900	100.0

Y0060	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5834			
PREVIOUS YEARS	155	7.9	155	7.9
NEVER	1396	71.6	1551	79.5
	399	20.5	1950	100.0

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Y0061	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5894	72.6	1373	72.6
PREVIOUS YEARS	1373	10.3	1568	83.0
NEVER	195	17.0	1890	100.0

Y0062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5835	42.6	830	42.6
PREVIOUS YEARS	830	52.7	1858	95.3
NEVER	1028	4.7	1949	100.0

Y0063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5836	47.0	916	47.0
PREVIOUS YEARS	916	27.6	1453	74.6
NEVER	537	25.4	1948	100.0

Y0064	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	32.2	632	32.2
PREVIOUS YEARS	632	65.4	1915	97.7
NEVER	1283	2.3	1961	100.0

Y0065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5825	3.0	58	3.0
PREVIOUS YEARS	58	67.5	1380	70.4
NEVER	1322	29.6	1959	100.0

Y0066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	21.5	422	21.5
PREVIOUS YEARS	422	76.4	1925	98.2
NEVER	1503	1.8	1961	100.0

Y0067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	6.2	122	6.2
PREVIOUS YEARS	122	92.4	1934	98.6
NEVER	1812	1.4	1961	100.0

Y0068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5855	5.0	96	5.0
PREVIOUS YEARS	96	89.9	1831	94.9
NEVER	1735	5.1	1929	100.0

Y0069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5830	11.3	220	11.3
PREVIOUS YEARS	220	70.4	1595	81.6
NEVER	1375	18.4	1954	100.0

Y0070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5827	5.8	113	5.8
PREVIOUS YEARS	113	93.4	1940	99.1
NEVER	1827	0.9	1957	100.0

Y0071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	8.2	161	8.2
PREVIOUS YEARS	161	87.8	1883	96.0
NEVER	1722	4.0	1961	100.0

Y0072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5831	13.3	260	13.3
PREVIOUS YEARS	260	84.8	1917	98.2
NEVER	1657	1.8	1953	100.0

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Y0073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5822	1.5	29	1.5
PREVIOUS YEARS	29	97.7	1946	99.2
NEVER	1917	0.8	1962	100.0

Y0074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5831	10.3	202	10.3
PREVIOUS YEARS	202	58.2	1338	68.5
NEVER	1136	31.5	1953	100.0

Y0075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5834	3.9	77	3.9
PREVIOUS YEARS	77	92.4	1879	96.4
NEVER	1802	3.6	1950	100.0

Y0076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5854	4.2	82	4.2
PREVIOUS YEARS	82	89.1	1802	93.4
NEVER	1720	6.6	1930	100.0

Y0077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5837	13.1	256	13.1
PREVIOUS YEARS	256	84.6	1904	97.8
NEVER	1648	2.2	1947	100.0

Y0078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5837	11.6	226	11.6
PREVIOUS YEARS	226	86.6	1912	98.2
NEVER	1686	1.8	1947	100.0

Y0079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5843	9.5	184	9.5
PREVIOUS YEARS	184	86.6	1864	96.0
NEVER	1680	4.0	1941	100.0

Y0080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5835	89.0	1734	89.0
PREVIOUS YEARS	1734	9.0	1910	98.0
NEVER	176	2.0	1949	100.0

Y0082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5802	57.0	1130	57.0
PREVIOUS YEARS	1130	35.2	1827	92.2
NEVER	697	4.3	1913	96.5
	9	3.5	1982	100.0

Y0083	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5849	36.0	697	36.0
PREVIOUS YEARS	697	30.9	1294	66.9
NEVER	597	33.1	1935	100.0

Y0084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5899	26.7	504	26.7
PREVIOUS YEARS	504	28.1	1033	54.8
NEVER	529	45.2	1885	100.0

Y0085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	46.6	913	46.6
PREVIOUS YEARS	913	50.9	1912	97.5
NEVER	999	2.5	1961	100.0

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Y0086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5817	69.3	1365	69.3
PREVIOUS YEARS	1363	26.7	1888	96.0
NEVER	79	4.0	1967	100.0

Y0087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5857	13.6	263	13.6
PREVIOUS YEARS	1557	80.8	1820	94.4
NEVER	107	5.6	1927	100.0

Y0088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	59.4	1165	59.4
PREVIOUS YEARS	1165	35.5	1861	94.9
NEVER	100	5.1	1961	100.0

Y0089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5817	20.4	402	20.4
PREVIOUS YEARS	402	74.9	1875	95.3
NEVER	1473	4.7	1967	100.0

Y0090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5855	26.8	517	26.8
PREVIOUS YEARS	517	60.7	1688	87.5
NEVER	1171	12.5	1929	100.0

Y0091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5823	71	71	3.6
PREVIOUS YEARS	71	95.6	1946	99.2
NEVER	1875	0.8	1961	100.0

Y0092	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5904	239	239	12.7
PREVIOUS YEARS	239	59.1	1350	71.8
NEVER	1111	28.2	1880	100.0

Y0093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5895	465	465	24.6
PREVIOUS YEARS	465	22.0	881	46.6
NEVER	1008	53.4	1889	100.0

Y0094	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5903	1326	1326	70.5
PREVIOUS YEARS	1326	108	1434	76.2
NEVER	447	23.8	1881	100.0

Y0095	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5826	391	391	20.0
PREVIOUS YEARS	391	76.7	1892	96.6
NEVER	1501	3.4	1958	100.0

Y0096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5843	855	855	44.0
PREVIOUS YEARS	855	470	1325	68.3
NEVER	616	31.7	1941	100.0

Y0097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5841	165	165	8.5
PREVIOUS YEARS	165	69.3	1511	77.8
NEVER	432	22.2	1943	100.0

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Y0098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5875	215	215	11.3
PREVIOUS YEARS	215	71.5	1580	82.8
NEVER	1365	17.2	1909	100.0

Y0099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5848	113	113	5.8
PREVIOUS YEARS	113	76.9	1601	82.7
NEVER	1488	335	1936	100.0

Y0100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5817	37	37	1.9
PREVIOUS YEARS	37	96.5	1936	98.4
NEVER	1899	31	1967	100.0

Y0101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5818	52	52	2.6
PREVIOUS YEARS	52	96.3	1945	98.9
NEVER	1893	21	1966	100.0

Y0102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5846	164	164	8.5
PREVIOUS YEARS	164	77.8	1672	86.3
NEVER	1508	266	1938	100.0

Y0103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5842	95	95	4.9
PREVIOUS YEARS	95	93.1	1903	98.0
NEVER	1808	39	1942	100.0

Y0104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5832	135	135	6.9
PREVIOUS YEARS	135	89.3	1878	96.2
NEVER	1743	74	1952	100.0

Y0105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5844	367	367	18.9
PREVIOUS YEARS	367	77.6	1872	96.5
NEVER	1505	68	1940	100.0

Y0106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5913	358	358	19.1
PREVIOUS YEARS	358	78.7	1830	97.8
NEVER	1472	41	1871	100.0

Y0107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5845	209	209	10.8
PREVIOUS YEARS	209	88.4	1924	99.2
NEVER	1715	15	1939	100.0

Y0108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5829	52	52	2.7
PREVIOUS YEARS	52	96.9	1946	99.5
NEVER	1894	9	1955	100.0

Y0109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5843	51	51	2.6
PREVIOUS YEARS	51	95.9	1912	98.5
NEVER	1861	29	1941	100.0

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Y0110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5859			
PREVIOUS YEARS	200	10.4	200	10.4
NEVER	1633	84.8	1833	95.2
	92	4.8	1925	100.0

Y0111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5924			
PREVIOUS YEARS	561	30.2	561	30.2
NEVER	1249	67.2	1810	97.3
	50	2.7	1860	100.0

Y0112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5870			
PREVIOUS YEARS	1097	57.3	1097	57.3
NEVER	761	39.8	1858	97.1
	56	2.9	1914	100.0

Y0113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5851			
PREVIOUS YEARS	1814	93.8	1814	93.8
NEVER	93	4.8	1907	98.7
	26	1.3	1933	100.0

Y0114	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5842			
PREVIOUS YEARS	871	44.9	871	44.9
NEVER	773	39.8	1644	84.7
	298	15.3	1942	100.0

Y0115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5916			
PREVIOUS YEARS	1675	89.7	1675	89.7
NEVER	144	7.7	1819	97.4
	49	2.6	1868	100.0

Y0116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5869			
PREVIOUS YEARS	1162	60.7	1162	60.7
NEVER	383	20.0	1545	80.7
	370	19.3	1915	100.0

Y0117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5919			
PREVIOUS YEARS	1097	58.8	1097	58.8
NEVER	410	22.0	1507	80.8
	358	19.2	1865	100.0

Y0118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5931			
PREVIOUS YEARS	921	49.7	921	49.7
NEVER	556	30.0	1477	79.7
	376	20.3	1853	100.0

Y0119	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5874			
PREVIOUS YEARS	1628	85.2	1628	85.2
NEVER	185	9.7	1813	94.9
	97	5.1	1910	100.0

Y0120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5900			
PREVIOUS YEARS	1322	70.2	1322	70.2
NEVER	195	10.4	1517	80.5
	367	19.5	1884	100.0

Y0121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5853			
PREVIOUS YEARS	1540	79.8	1540	79.8
NEVER	177	9.2	1717	88.9
	214	11.1	1931	100.0

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Y0122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5897			
PREVIOUS YEARS	302	16.0	302	16.0
NEVER	1558	82.6	1860	98.6
	27	1.4	1887	100.0

Y0123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5889			
PREVIOUS YEARS	393	20.7	393	20.7
NEVER	1283	67.7	1676	88.4
	219	11.6	1895	100.0

Y0124	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5896			
PREVIOUS YEARS	777	41.2	777	41.2
NEVER	782	41.4	1559	82.6
	329	17.4	1888	100.0

Y0125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5863			
PREVIOUS YEARS	405	21.1	405	21.1
NEVER	1010	52.6	1415	73.7
	506	26.3	1921	100.0

Y0126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5852			
PREVIOUS YEARS	1493	77.3	1493	77.3
NEVER	151	7.8	1644	85.1
	288	14.9	1932	100.0

Y0127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5885			
PREVIOUS YEARS	675	35.5	675	35.5
NEVER	917	48.3	1592	83.8
	307	16.2	1899	100.0

Y0128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5844			
PREVIOUS YEARS	979	50.5	979	50.5
NEVER	852	43.9	1831	94.4
	109	5.6	1940	100.0

Y0129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5863			
PREVIOUS YEARS	262	13.6	262	13.6
NEVER	1342	69.9	1604	83.5
	317	16.5	1921	100.0

Y0130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5837			
PREVIOUS YEARS	46	2.4	46	2.4
NEVER	1863	95.7	1909	98.0
	38	2.0	1947	100.0

Y0131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5890			
PREVIOUS YEARS	157	8.3	157	8.3
NEVER	1061	56.0	1218	64.3
	676	35.7	1894	100.0

Y0132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5839			
PREVIOUS YEARS	90	4.6	90	4.6
NEVER	1796	92.3	1886	97.0
	59	3.0	1945	100.0

Y0133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5836			
PREVIOUS YEARS	30	1.5	30	1.5
NEVER	1901	97.6	1931	99.1
	17	0.9	1948	100.0

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Y0134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5908			
PREVIOUS YEARS	159	8.5	159	8.5
NEVER	1441	76.8	1600	85.3
	276	14.7	1876	100.0

Y0135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5879			
PREVIOUS YEARS	284	14.9	284	14.9
NEVER	1058	55.5	1342	70.4
	563	29.6	1905	100.0

Y0136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5840			
PREVIOUS YEARS	44	2.3	44	2.3
NEVER	1871	96.2	1915	98.5
	29	1.5	1944	100.0

Y0137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5983			
PREVIOUS YEARS	221	72.4	1304	72.4
NEVER	284	15.8	1588	88.2
	213	11.8	1801	100.0

Y0138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5963			
PREVIOUS YEARS	92	5.1	92	5.1
NEVER	1677	92.1	1769	97.1
	52	2.9	1821	100.0

Y0139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5972			
PREVIOUS YEARS	221	12.2	221	12.2
NEVER	245	13.5	466	25.7
	1546	74.3	1812	100.0

Y0140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5959			
PREVIOUS YEARS	75	4.1	75	4.1
NEVER	1686	92.4	1761	96.5
	64	3.5	1825	100.0

Y0141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5963			
PREVIOUS YEARS	194	10.7	194	10.7
NEVER	1392	76.4	1586	87.1
	235	12.9	1821	100.0

Y0142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	6001			
PREVIOUS YEARS	967	54.2	967	54.2
NEVER	691	38.8	1658	93.0
	125	7.0	1783	100.0

Y0143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5955			
PREVIOUS YEARS	432	23.6	432	23.6
NEVER	1054	57.6	1486	81.2
	343	18.8	1829	100.0

Y0144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5960			
PREVIOUS YEARS	656	36.0	656	36.0
NEVER	1075	58.9	1731	94.9
	93	5.1	1824	100.0

Y0145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5992			
PREVIOUS YEARS	34	1.9	34	1.9
NEVER	54	3.0	88	4.9
	1704	95.1	1792	100.0

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Y0146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5947			
PREVIOUS YEARS	48	2.6	48	2.6
NEVER	1670	90.9	1718	93.5
	119	6.5	1837	100.0

Y0147	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5956			
PREVIOUS YEARS	1370	74.9	1370	74.9
NEVER	444	24.3	1814	99.2
	14	0.8	1828	100.0

Y0148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5965			
PREVIOUS YEARS	868	47.7	868	47.7
NEVER	558	30.7	1426	78.4
	393	21.6	1819	100.0

Y0149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5993			
PREVIOUS YEARS	1118	62.4	1118	62.4
NEVER	548	30.6	1666	93.0
	125	7.0	1791	100.0

Y0150	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5958			
PREVIOUS YEARS	1398	76.6	1398	76.6
NEVER	238	13.0	1636	89.6
	190	10.4	1826	100.0

Y0151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5994			
PREVIOUS YEARS	1618	90.4	1618	90.4
NEVER	125	7.0	1743	97.4
	47	2.6	1790	100.0

Y0152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5962			
PREVIOUS YEARS	757	41.5	757	41.5
NEVER	925	50.8	1682	92.3
	140	7.7	1822	100.0

Y0153	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5956			
PREVIOUS YEARS	453	24.8	453	24.8
NEVER	1328	72.6	1781	97.4
	47	2.6	1828	100.0

Y0154	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5962			
PREVIOUS YEARS	375	20.6	375	20.6
NEVER	947	52.0	1322	72.6
	500	27.4	1822	100.0

Y0155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5955			
PREVIOUS YEARS	550	30.1	550	30.1
NEVER	1011	55.3	1561	85.3
	268	14.7	1829	100.0

Y0156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5980			
PREVIOUS YEARS	234	13.0	234	13.0
NEVER	1278	70.8	1512	83.8
	292	16.2	1804	100.0

Y0157	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5985			
PREVIOUS YEARS	577	32.1	577	32.1
NEVER	858	47.7	1435	79.8
	364	20.2	1799	100.0

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Y0158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5990	29.6	531	29.6
PREVIOUS YEARS	1044	58.2	1575	87.8
NEVER	219	12.2	1794	100.0

Y0159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5938	12.0	222	12.0
PREVIOUS YEARS	1596	86.5	1818	98.5
NEVER	28	1.5	1846	100.0

Y0160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5994	17.5	313	17.5
PREVIOUS YEARS	1446	80.8	1759	98.3
NEVER	31	1.7	1790	100.0

Y0161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5988	18.1	325	18.1
PREVIOUS YEARS	1435	79.9	1760	98.0
NEVER	36	2.0	1796	100.0

Y0162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5951	6.2	114	6.2
PREVIOUS YEARS	1697	92.6	1811	98.8
NEVER	22	1.2	1833	100.0

Y0163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5946	11.4	210	11.4
PREVIOUS YEARS	1491	81.1	1701	92.5
NEVER	157	7.5	1858	100.0

Y0164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5944	3.5	64	3.5
PREVIOUS YEARS	1717	93.3	1781	96.8
NEVER	59	3.2	1840	100.0

Y0165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5992	8.4	150	8.4
PREVIOUS YEARS	1573	87.8	1723	96.1
NEVER	69	3.9	1792	100.0

Y0166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5954	17.2	314	17.2
PREVIOUS YEARS	1492	81.5	1806	98.7
NEVER	24	1.3	1830	100.0

Y0167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5952	6.1	111	6.1
PREVIOUS YEARS	1631	89.0	1742	95.1
NEVER	90	4.9	1832	100.0

Y0168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5961	10.5	192	10.5
PREVIOUS YEARS	1508	82.7	1700	93.3
NEVER	123	6.7	1823	100.0

Y0169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5822	79.4	1558	79.4
PREVIOUS YEARS	1558	5.0	1656	84.4
NEVER	306	15.6	1962	100.0

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Y0170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	6013	2.2	39	2.2
PREVIOUS YEARS	55	3.1	94	5.3
NEVER	1677	94.7	1771	100.0

Y0171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5923	5.3	98	5.3
PREVIOUS YEARS	92	4.9	190	10.2
NEVER	1671	89.8	1861	100.0

Y0172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5892	50.3	952	50.3
PREVIOUS YEARS	141	7.5	1093	57.8
NEVER	799	42.2	1892	100.0

Y0173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5854	8.1	156	8.1
PREVIOUS YEARS	65	3.4	221	11.5
NEVER	1709	88.5	1930	100.0

Y0174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5953	25.0	458	25.0
PREVIOUS YEARS	1303	71.2	1761	96.2
NEVER	70	3.8	1831	100.0

Y0175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5891	71.4	1352	71.4
PREVIOUS YEARS	315	16.6	1667	88.1
NEVER	226	11.9	1893	100.0

Y0176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5863	34.0	653	34.0
PREVIOUS YEARS	432	22.5	1085	56.5
NEVER	836	43.5	1921	100.0

Y0181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
THIS YEAR	5879	2.8	53	2.8
PREVIOUS YEARS	122	6.4	175	9.2
NEVER	1730	90.8	1905	100.0

Student Questionnaire - Pre test

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

AVAILBLTY OF STUDNT BKGND QUEST-PRETEST

XFLAG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	1	0.0	1	0.0
FORM NOT PRESENT	7784	100.0	7785	100.0

1. SEX OF STUDENT

XSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FEMALE	3780	48.6	3780	48.6
MALE	4004	51.4	7784	100.0

2. STUDENTS' AGE-MONTHS

XAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
87	1	0.0	1	0.0
137	1	0.0	2	0.0
139	1	0.0	3	0.0
140	2	0.0	5	0.1
141	1	0.0	6	0.1
144	1	0.0	7	0.1
145	15	0.2	22	0.3
146	632	8.2	654	8.5
147	629	8.2	1283	16.7
148	649	8.4	1931	25.1
149	629	8.2	2560	33.3
150	584	7.6	3144	40.8
151	638	8.3	3782	49.1
152	650	8.4	4432	57.6
153	638	8.3	5070	65.9
154	676	8.8	5746	74.6
155	609	7.9	6355	82.6
156	658	8.5	7013	91.1
157	661	8.6	7674	99.7
158	4	0.1	7678	99.7
159	7	0.1	7685	99.8
160	8	0.1	7693	99.9
161	1	0.0	7694	99.9
162	1	0.0	7695	100.0
165	1	0.0	7696	100.0
169	2	0.0	7698	100.0

3. HOW MANY OLDER BROTHERS AND SISTERS

XOLDSIB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7785	.	.	.

IMPORT..CHECKING AN ANSWER

XCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	102	.	.	.
IMPORTANT	3839	50.0	3839	50.0
UNDECIDED	2888	37.6	6727	87.6
NOT IMPORTANT	793	10.3	7520	97.9
NOT AT ALL IMPOR	143	1.9	7663	99.7
	20	0.3	7683	100.0

EASY..CHECKING AN ANSWER

XCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	101	.	.	.
EASY	175	2.3	175	2.3
UNDECIDED	954	12.4	1129	14.7
HARD	2977	38.7	4106	53.4
VERY HARD	3171	41.3	7277	94.7
	407	5.3	7684	100.0

LIKE..CHECKING AN ANSWER

XCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	100	.	.	.
LIKE	646	8.4	646	8.4
UNDECIDED	1509	19.6	2155	28.0
DISLIKE	2963	38.6	5118	66.6
DISLIKE A LOT	2167	28.2	7285	94.8
	400	5.2	7685	100.0

IMPORT..MEMORIZING RULES FORMULAS

XMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	99	.	.	.
IMPORTANT	5345	69.5	5345	69.5
UNDECIDED	1970	25.6	7315	95.2
NOT IMPORTANT	281	3.7	7596	98.8
NOT AT ALL IMPOR	78	1.0	7674	99.8
	12	0.2	7686	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

EASY..MEMORIZING RULES FORMULAS

XMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	106	.	.	.
EASY	257	3.3	257	3.3
UNDECIDED	1713	22.3	1970	25.7
HARD	2767	36.0	4737	61.7
VERY HARD	2737	35.6	7474	97.3
	205	2.7	7679	100.0

LIKE..MEMORIZING RULES FORMULAS

XMEML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	124	.	.	.
LIKE	444	5.8	444	5.8
UNDECIDED	2085	27.2	2529	33.0
DISLIKE	3788	49.4	6317	82.5
DISLIKE A LOT	1226	16.0	7543	98.5
	118	1.5	7661	100.0

IMPORT..USING CHARTS GRAPHS

XCHRTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	116	.	.	.
IMPORTANT	1874	24.4	1874	24.4
UNDECIDED	3441	44.9	5315	69.3
NOT IMPORTANT	1728	22.5	7043	91.8
NOT AT ALL IMPOR	577	7.5	7620	99.4
	49	0.6	7669	100.0

EASY..USING CHARTS GRAPHS

XCHRT E	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	123	.	.	.
EASY	266	3.5	266	3.5
UNDECIDED	1868	24.4	2134	27.9
HARD	3982	52.0	6116	79.8
VERY HARD	1452	19.0	7568	98.8
	94	1.2	7662	100.0

LIKE..USING CHARTS GRAPHS

XCHRTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	135	.	.	.
LIKE	315	4.1	315	4.1
UNDECIDED	1602	20.9	1917	25.1
DISLIKE	4466	58.4	6383	83.4
DISLIKE A LOT	1131	14.8	7514	98.2
	136	1.8	7650	100.0

IMPORT..SOLVING WORD PROBLEMS

XWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	105	.	.	.
IMPORTANT	3903	50.8	3903	50.8
UNDECIDED	3295	42.9	7198	93.7
NOT IMPORTANT	376	4.9	7574	98.6
NOT AT ALL IMPOR	99	1.3	7673	99.9
	7	0.1	7680	100.0

EASY..SOLVING WORD PROBLEMS

XWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	111	.	.	.
EASY	275	3.6	275	3.6
UNDECIDED	2309	30.1	2584	33.7
HARD	3900	50.8	6484	84.5
VERY HARD	1131	14.7	7615	99.2
	59	0.8	7674	100.0

LIKE..SOLVING WORD PROBLEMS

XWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	118	.	.	.
LIKE	184	2.4	184	2.4
UNDECIDED	1420	18.5	1604	20.9
DISLIKE	4667	60.9	6271	81.8
DISLIKE A LOT	1281	16.7	7552	98.5
	115	1.5	7667	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

IMPORT..SOLVING EQUATIONS

XEQUAI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	102			
IMPORTANT	1957	25.5	1957	25.5
UNDECIDED	4096	53.3	6053	78.8
NOT IMPORTANT	1355	17.6	7408	96.4
NOT AT ALL IMPOR	261	3.4	7669	99.8
	14	0.2	7683	100.0

EASY..SOLVING EQUATIONS

XEQAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	103			
EASY	629	8.2	629	8.2
UNDECIDED	3164	41.2	3793	49.4
HARD	2842	37.0	6635	86.4
VERY HARD	982	12.8	7617	99.2
	65	0.8	7682	100.0

LIKE..SOLVING EQUATIONS

XEQUAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	128			
LIKE	948	12.4	948	12.4
UNDECIDED	2872	37.5	3820	49.9
DISLIKE	2851	37.2	6671	87.1
DISLIKE A LOT	874	11.4	7545	98.5
	112	1.5	7657	100.0

IMPORT..SOLVING INEQUALITIES

XINEQI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	290			
IMPORTANT	2415	32.2	2415	32.2
UNDECIDED	3359	44.8	5774	77.0
NOT IMPORTANT	1557	20.8	7331	97.8
NOT AT ALL IMPOR	146	1.9	7477	99.8
	18	0.2	7495	100.0

EASY..SOLVING INEQUALITIES

XINEQE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	306			
EASY	143	1.9	143	1.9
UNDECIDED	856	11.4	999	13.4
HARD	4349	58.1	5348	71.5
VERY HARD	1915	25.6	7263	97.1
	216	2.9	7479	100.0

LIKE..SOLVING INEQUALITIES

XINEQL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	320			
LIKE	294	3.9	294	3.9
UNDECIDED	1057	14.2	1351	18.1
DISLIKE	4533	60.7	5884	78.8
DISLIKE A LOT	1403	18.8	7287	97.6
	178	2.4	7465	100.0

IMPORT..LEARN GEOMETRIC FIGURES

XGEOMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	254			
IMPORTANT	1471	19.5	1471	19.5
UNDECIDED	3399	45.1	4870	64.7
NOT IMPORTANT	2224	29.5	7094	94.2
NOT AT ALL IMPOR	414	5.5	7508	99.7
	23	0.3	7531	100.0

EASY..LEARNING GEOMETRIC FIGURES

XGEOME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	262			
EASY	461	6.1	461	6.1
UNDECIDED	1924	25.6	2385	31.7
HARD	4099	54.5	6484	86.2
VERY HARD	955	12.7	7439	98.9
	84	1.1	7523	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

LIKE..LEARNING GEOMETRIC FIGURES

XGEOML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	269			
LIKE	412	5.5	412	5.5
UNDECIDED	1670	22.2	2082	27.7
DISLIKE	4437	59.0	6519	86.7
DISLIKE A LOT	896	11.9	7415	98.7
	101	1.3	7516	100.0

IMPORT..ESTIMATING ANSWERS

XESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	107			
IMPORTANT	1856	24.2	1856	24.2
UNDECIDED	3813	49.7	5669	73.8
NOT IMPORTANT	1436	18.7	7105	92.5
NOT AT ALL IMPOR	546	7.1	7651	99.6
	27	0.4	7678	100.0

EASY..ESTIMATING ANSWERS

XESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	114			
EASY	648	8.4	648	8.4
UNDECIDED	2958	38.6	3606	47.0
HARD	2784	36.3	6390	83.3
VERY HARD	1178	15.4	7568	98.7
	103	1.3	7671	100.0

LIKE..ESTIMATING ANSWERS

XESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	114			
LIKE	1137	14.8	1137	14.8
UNDECIDED	2943	38.4	4080	53.2
DISLIKE	2490	32.5	6570	85.6
DISLIKE A LOT	953	12.4	7523	98.1
	148	1.9	7671	100.0

IMPORT..LEARNING RATIO PROPORTION

XRATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	114			
IMPORTANT	2439	31.8	2439	31.8
UNDECIDED	3606	47.0	6045	78.8
NOT IMPORTANT	1227	16.0	7272	94.8
NOT AT ALL IMPOR	368	4.8	7640	99.6
	31	0.4	7671	100.0

EASY..LEARNING RATIO PROPORTION

XRATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	117			
EASY	497	6.5	497	6.5
UNDECIDED	2296	29.9	2793	36.4
HARD	2889	37.7	5682	74.1
VERY HARD	1797	23.4	7479	97.5
	189	2.5	7668	100.0

LIKE..LEARNING RATIO PROPORTION

XRATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	130			
LIKE	753	9.8	753	9.8
UNDECIDED	2224	29.1	2977	38.9
DISLIKE	2919	38.1	5896	77.0
DISLIKE A LOT	1522	19.9	7418	96.9
	237	3.1	7655	100.0

IMPORT..DECIMAL FRACTION PROBLEMS

XDECI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	105			
IMPORTANT	2610	34.0	2610	34.0
UNDECIDED	3651	47.5	6261	81.5
NOT IMPORTANT	1134	14.8	7395	96.3
NOT AT ALL IMPOR	261	3.4	7656	99.7
	24	0.3	7680	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

EASY..DECIMAL FRACTION PROBLEMS

XDECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	111			
EASY	539	7.0	539	7.0
UNDECIDED	2629	34.3	3168	41.3
HARD	3104	40.4	6272	81.7
VERY HARD	1298	16.9	7570	98.6
	104	1.4	7674	100.0

LIKE..DECIMAL FRACTION PROBLEMS

XDECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	109			
LIKE	717	9.3	717	9.3
UNDECIDED	2423	31.6	3140	40.9
DISLIKE	3105	40.5	6245	81.4
DISLIKE A LOT	1231	16.0	7476	97.4
	200	2.6	7676	100.0

IMPORT..WORKING WITH SETS

XSETSI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	105			
IMPORTANT	1980	25.8	1980	25.8
UNDECIDED	3361	43.8	5341	69.5
NOT IMPORTANT	1650	21.5	6991	91.0
NOT AT ALL IMPOR	629	8.2	7620	99.2
	60	0.8	7680	100.0

EASY..WORKING WITH SETS

XSETSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	118			
EASY	612	8.0	612	8.0
UNDECIDED	2908	37.9	3520	45.9
HARD	2998	39.1	6518	85.0
VERY HARD	1065	13.9	7583	98.9
	84	1.1	7667	100.0

LIKE..WORKING WITH SETS

XSETSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	117			
LIKE	836	10.9	836	10.9
UNDECIDED	2861	37.3	3697	48.2
DISLIKE	3004	39.2	6701	87.4
DISLIKE A LOT	847	11.0	7548	98.4
	120	1.6	7668	100.0

IMPORT..LEARNING UNITS OF MEASURE

XMEASI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	112			
IMPORTANT	4580	59.7	4580	59.7
UNDECIDED	2487	32.4	7067	92.1
NOT IMPORTANT	475	6.2	7542	98.3
NOT AT ALL IMPOR	113	1.5	7655	99.8
	18	0.2	7673	100.0

EASY..LEARNING UNITS OF MEASURE

XMEASE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	112			
EASY	352	4.6	352	4.6
UNDECIDED	1613	21.0	1965	25.6
HARD	2806	36.6	4771	62.2
VERY HARD	2507	32.7	7278	94.9
	395	5.1	7673	100.0

LIKE..LEARNING UNITS OF MEASURE

XMEASL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	119			
LIKE	747	9.7	747	9.7
UNDECIDED	1968	25.7	2715	35.4
DISLIKE	2548	33.2	5263	68.7
DISLIKE A LOT	1899	24.8	7162	93.4
	504	6.6	7666	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

IMPORT..DRAWING GEOMETRIC FIGURES

XDRAWI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	117			
IMPORTANT	1848	24.1	1848	24.1
UNDECIDED	3561	46.4	5409	70.5
NOT IMPORTANT	1684	22.0	7093	92.5
NOT AT ALL IMPOR	535	7.0	7628	99.5
	40	0.5	7668	100.0

EASY..DRAWING GEOMETRIC FIGURES

XDRAWI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	118			
EASY	739	9.6	739	9.6
UNDECIDED	2807	36.6	3546	46.3
HARD	2887	37.7	6433	83.9
VERY HARD	1139	14.9	7572	98.8
	95	1.2	7667	100.0

LIKE..DRAWING GEOMETRIC FIGURES

XDRAWL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	123			
LIKE	1446	18.9	1446	18.9
UNDECIDED	2762	36.0	4208	54.9
DISLIKE	2327	30.4	6535	85.3
DISLIKE A LOT	971	12.7	7506	98.0
	156	2.0	7662	100.0

IMPORT..STATISTICAL TABLES

XSTATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	163			
IMPORTANT	2577	33.8	2577	33.8
UNDECIDED	3386	44.4	5963	78.2
NOT IMPORTANT	1432	18.8	7395	97.0
NOT AT ALL IMPOR	213	2.8	7608	99.8
	14	0.2	7622	100.0

EASY..STATISTICAL TABLES

XSTATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	164			
EASY	292	3.8	292	3.8
UNDECIDED	1470	19.3	1762	23.1
HARD	4193	55.0	5955	78.1
VERY HARD	1527	20.0	7482	98.2
	139	1.8	7621	100.0

LIKE..STATISTICAL TABLES

XSTATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	182			
LIKE	422	5.6	422	5.6
UNDECIDED	1373	18.1	1795	23.6
DISLIKE	4142	54.5	5937	78.1
DISLIKE A LOT	1477	19.4	7414	97.5
	189	2.5	7603	100.0

IMPORT..COMPARE GEOMETRIC FIGURES

XFIGI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	189			
IMPORTANT	1171	15.4	1171	15.4
UNDECIDED	3166	41.7	4337	57.1
NOT IMPORTANT	2502	32.9	6839	90.0
NOT AT ALL IMPOR	711	9.4	7550	99.4
	46	0.6	7596	100.0

EASY..COMPARING GEOMETRIC FIGURES

XFIGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	190			
EASY	480	6.3	480	6.3
UNDECIDED	2062	27.1	2542	33.5
HARD	4119	54.2	6661	87.7
VERY HARD	873	11.5	7534	99.2
	61	0.8	7595	100.0

JAPAN -- POPULATION A
STUDENT PRETEST QUESTIONNAIRE

LIKE..COMPARING GEOMETRIC FIGURES

XFIGL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	198			
LIKE	517	6.8	517	6.8
UNDECIDED	1740	22.9	2257	29.7
DISLIKE	4303	56.7	6560	86.5
DISLIKE A LOT	923	12.2	7483	98.6
	104	1.4	7587	100.0

IMPORT..WORKING WITH FRACTIONS

XFRACI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	115			
IMPORTANT	3074	40.1	3074	40.1
UNDECIDED	3368	43.9	6442	84.0
NOT IMPORTANT	948	12.4	7390	96.3
NOT AT ALL IMPOR	252	3.3	7642	99.6
	28	0.4	7670	100.0

EASY..WORKING WITH FRACTIONS

XFRACE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	123			
EASY	744	9.7	744	9.7
UNDECIDED	2664	34.8	3408	44.5
HARD	2827	36.9	6235	81.4
VERY HARD	1302	17.0	7537	98.4
	125	1.6	7662	100.0

LIKE..WORKING WITH FRACTIONS

XFRACL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	118			
LIKE	1363	17.8	1363	17.8
UNDECIDED	2713	35.4	4076	53.2
DISLIKE	2353	30.7	6429	83.9
DISLIKE A LOT	1031	13.4	7460	97.3
	207	2.7	7667	100.0

STUDENT AGE-SHOWA

XSHOWA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
3400960	1	0.0	1	0.0
4103936	1	0.0	2	0.0
4104192	1	0.0	3	0.0
4108032	1	0.0	4	0.1
4111104	1	0.0	5	0.1
4112128	1	0.0	6	0.1
4200960	4	0.1	10	0.1
4201984	6	0.1	16	0.2
4202240	1	0.0	17	0.2
4203008	7	0.1	24	0.3
4203776	49	0.6	73	0.9
4204032	571	7.3	644	8.3
4204288	48	0.6	692	8.9
4204800	113	1.5	805	10.3
4205056	550	7.1	1355	17.4
4205824	150	1.9	1505	19.3
4206080	469	6.0	1974	25.4
4206848	226	2.9	2200	28.3
4207104	456	5.9	2656	34.1
4207872	238	3.1	2894	37.2
4208128	409	5.3	3303	42.4
4208896	329	4.2	3632	46.7
4209152	330	4.2	3962	50.9
4209920	398	5.1	4360	56.0
4210176	249	3.2	4609	59.2
4210944	373	4.8	4982	64.0
4211200	219	2.8	5201	66.8
4211968	456	5.9	5657	72.7
4212224	177	2.3	5834	74.9
4300800	107	1.4	5941	76.3
4301056	550	7.1	6491	83.4
4301824	144	1.8	6635	85.2
4302080	490	6.3	7125	91.5
4302848	210	2.7	7335	94.2
4303104	426	5.5	7761	99.7
4303872	14	0.2	7775	99.9
4307200	1	0.0	7776	99.9
4308224	1	0.0	7777	99.9
4310016	1	0.0	7778	99.9
4312064	2	0.0	7780	99.9
4404224	1	0.0	7781	100.0
9999872	3	0.0	7784	100.0

Student Questionnaire - Post test

JAPAN -- POPULATION A
STUDENT POSTTEST QUESTIONNAIRE

AVAILBLTY OF STUDNT BKGRND QUEST--POSTTE

YFLAG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FORM NOT PRESENT	7785	100.0	7785	100.0

A1:ARE YOU A GIRL OR A BOY

YSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FEMALE	3781	48.6	3781	48.6
MALE	4004	51.4	7785	100.0

A2:WHAT IS YOUR AGE IN MONTHS

YAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86		.	
147	1	0.0	1	0.0
149	1	0.0	2	0.0
150	2	0.0	4	0.1
151	1	0.0	5	0.1
154	1	0.0	6	0.1
155	15	0.2	21	0.3
156	632	8.2	653	8.5
157	629	8.2	1282	16.7
158	649	8.4	1931	25.1
159	629	8.2	2560	33.3
160	584	7.6	3144	40.8
161	639	8.3	3783	49.1
162	650	8.4	4433	57.6
163	638	8.3	5071	65.9
164	676	8.8	5747	74.6
165	609	7.9	6356	82.6
166	658	8.5	7014	91.1
167	661	8.6	7675	99.7
168	4	0.1	7679	99.7
169	7	0.1	7686	99.8
170	8	0.1	7694	99.9
171	1	0.0	7695	99.9
172	1	0.0	7696	100.0
175	1	0.0	7697	100.0
179	2	0.0	7699	100.0

A3:NO OF OLDER BROTHERS AND SISTERS

YOLDSIB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7785		.	

AD1:FATHERS OCCUPATION NATIONAL CODE

YFOCCN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3388		.	
1	1169	26.6	1169	26.6
2	968	22.0	2137	48.6
3	593	13.5	2730	62.1
4	573	13.0	3303	75.1
5	756	17.2	4059	92.3
6	287	6.5	4346	98.8
7	21	0.5	4367	99.3
8	30	0.7	4397	100.0

AD1:FATHER OCCUPATION INTERNATIONAL CODE

YFOCCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3388		.	
0	30	0.7	30	0.7
UN- OR SEMI-SKIL	21	0.5	51	1.2
SKILLED WORKER	1541	35.0	1592	36.2
CLERICAL OR SALE	1925	43.8	3517	80.0
PROFESSIONAL	880	20.0	4397	100.0

AD3:DOES MOTHER HAVE OCCUPATION

YMHORK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2957		.	
HOUSEWIFE	1314	27.2	1314	27.2
PART-TIME WORK	674	14.0	1988	41.2
FULL-TIME WORK	2840	58.8	4828	100.0

AD5:MOTHER'S OCCUPATION NATIONAL CODE

YMOCCN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4801		.	
1	505	16.9	505	16.9
2	268	9.0	773	25.9
3	184	6.2	957	32.1
4	404	13.5	1361	45.6
5	806	27.0	2167	72.6
6	247	8.3	2414	80.9
7	552	18.5	2966	99.4
8	18	0.6	2984	100.0

JAPAN -- POPULATION A
STUDENT POSTTEST QUESTIONNAIRE

AD5:MOTHER'S OCCUPATION INTERNATIONAL CO

YMOCCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	4801			
UN- OR SEMI-SKIL	18	0.6	18	0.6
SKILLED WORKER	552	18.5	570	19.1
CLERICAL OR SALE	672	22.5	1242	41.6
PROFESSIONAL	1311	43.9	2553	85.6
	431	14.4	2984	100.0

A4:FATHERS HIGHEST EDUCATION ATTAINED

YFEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	4279			
PRIMARY SCHOOL	966	27.6	966	27.6
SECONDARY SCHOOL	1772	50.5	2738	78.1
BEYOND SECONDARY	768	21.9	3506	100.0

A5:MOTHER'S HIGHEST EDUCATION ATTAINED

YMEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	4268			
PRIMARY SCHOOL	1124	32.0	1124	32.0
SECONDARY SCHOOL	2014	57.3	3138	89.2
BEYOND SECONDARY	379	10.8	3517	100.0

A7:YEARS MORE EDUCATION EXPECTED

YMOREED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	121			
UP TO 2 YEARS	185	2.4	185	2.4
3 TO 5 YEARS	3770	49.2	3955	51.6
6 TO 8 YEARS	1521	19.8	5476	71.5
MORE THAN 8 YRS	2188	28.5	7664	100.0

AD7:LAST WEEK..HOURS MATH HOMEWORK

YMHWKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	277			
0	534	7.1	534	7.1
1	2682	35.7	3216	42.8
2	1454	19.4	4670	62.2
3	1072	14.3	5742	76.5
4	638	8.5	6380	85.0
5	336	4.5	6716	89.5
6	230	3.1	6946	92.5
7	309	4.1	7255	96.6
8	66	0.9	7321	97.5
9	21	0.3	7342	97.8
10	42	0.6	7384	98.3
11	3	0.0	7387	98.4
12	18	0.2	7405	98.6
13	6	0.1	7411	98.7
14	41	0.5	7452	99.3
15	12	0.2	7464	99.4
16	2	0.0	7466	99.4
18	4	0.1	7470	99.5
19	3	0.0	7473	99.5
20	6	0.1	7479	99.6
21	8	0.1	7487	99.7
25	1	0.0	7488	99.7
30	17	0.2	7505	100.0
34	1	0.0	7506	100.0
36	1	0.0	7507	100.0
90	1	0.0	7508	100.0

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AD7:TYPICAL WEEK..HOURS MATH HOMEWORK

YMHWKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	319			
0	225	3.0	225	3.0
1	2832	37.9	3057	40.9
2	1612	21.6	4669	62.5
3	1107	14.8	5776	77.4
4	614	8.2	6390	85.6
5	354	4.7	6744	90.3
6	219	2.9	6963	93.3
7	252	3.4	7215	96.6
8	71	1.0	7286	97.6
9	10	0.1	7296	97.7
10	43	0.6	7339	98.3
11	11	0.1	7350	98.4
12	18	0.2	7368	98.7
13	2	0.0	7370	98.7
14	30	0.4	7400	99.1
15	7	0.1	7407	99.2
16	4	0.1	7411	99.3
17	2	0.0	7413	99.3
18	1	0.0	7414	99.3
19	1	0.0	7415	99.3
20	13	0.2	7428	99.5
21	7	0.1	7435	99.6
24	2	0.0	7437	99.6
25	2	0.0	7439	99.6
30	20	0.3	7459	99.9
40	1	0.0	7460	99.9
44	1	0.0	7461	99.9
45	3	0.0	7464	100.0
48	1	0.0	7465	100.0
90	1	0.0	7466	100.0

AD8:LAST WEEK..HOURS ALL HOMEWORK

YAHWKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	303			
0	131	1.8	131	1.8
1	768	10.3	899	12.0
2	1407	18.8	2306	30.8
3	1008	13.5	3314	44.3
4	590	7.9	3904	52.2
5	596	8.0	4500	60.1
6	395	5.3	4895	65.4
7	443	5.9	5338	71.3
8	273	3.6	5611	75.0
9	122	1.6	5733	76.6
10	332	4.4	6065	81.1
11	50	0.7	6115	81.7
12	226	3.0	6341	84.8
13	59	0.8	6400	85.5
14	302	4.0	6702	89.6
15	160	2.1	6862	91.7
16	59	0.8	6921	92.5
17	30	0.4	6951	92.9
18	91	1.2	7042	94.1
19	21	0.3	7063	94.4
20	103	1.4	7166	95.8
21	132	1.8	7298	97.5
22	14	0.2	7312	97.7
23	14	0.2	7326	97.9
24	16	0.2	7342	98.1
25	20	0.3	7362	98.4
26	3	0.0	7365	98.4
27	8	0.1	7373	98.5
28	37	0.5	7410	99.0
29	3	0.0	7413	99.1
30	19	0.3	7432	99.3
32	3	0.0	7435	99.4
33	1	0.0	7436	99.4
35	15	0.2	7451	99.6
36	3	0.0	7454	99.6
38	2	0.0	7456	99.7
40	8	0.1	7464	99.8
42	3	0.0	7467	99.8
45	3	0.0	7470	99.8
48	1	0.0	7471	99.9
49	2	0.0	7473	99.9
50	2	0.0	7475	99.9
53	1	0.0	7476	99.9
56	1	0.0	7477	99.9
59	1	0.0	7478	99.9
60	3	0.0	7481	100.0
64	1	0.0	7482	100.0

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AD8: TYPICAL WEEK..HOURS ALL HOMEWORK

YAHWKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	306	1.0	73	1.0
1	75	12.8	1036	13.8
2	1510	20.2	2544	34.0
3	1030	13.8	3574	47.8
4	625	8.4	4199	56.1
5	497	6.6	4696	62.8
6	449	6.0	5145	68.8
7	449	6.0	5594	74.8
8	236	3.2	5830	78.0
9	144	1.9	5974	79.9
10	312	4.2	6286	84.0
11	54	0.7	6340	84.8
12	211	2.8	6551	87.6
13	67	0.9	6618	88.5
14	254	3.4	6872	91.9
15	127	1.7	6999	93.6
16	47	0.6	7046	94.2
17	23	0.3	7069	94.5
18	60	0.8	7129	95.3
19	11	0.1	7140	95.5
20	100	1.3	7240	96.8
21	80	1.1	7320	97.9
22	14	0.2	7334	98.1
23	9	0.1	7343	98.2
24	13	0.2	7356	98.4
25	23	0.3	7379	98.7
26	3	0.0	7382	98.7
27	4	0.1	7386	98.8
28	23	0.3	7409	99.1
29	3	0.0	7412	99.1
30	31	0.4	7443	99.5
31	1	0.0	7444	99.5
32	1	0.0	7445	99.5
33	1	0.0	7446	99.6
34	10	0.1	7456	99.7
35	3	0.0	7459	99.7
36	3	0.0	7462	99.8
37	8	0.1	7470	99.9
38	3	0.0	7473	99.9
39	1	0.0	7474	99.9
40	1	0.0	7475	99.9
41	2	0.0	7477	100.0
42	1	0.0	7478	100.0
43	1	0.0	7479	100.0

AD9: LAST WEEK..EXTRA MATH TUTORING

YTUTORL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	769	38.4	2692	38.4
1	2692	13.1	3608	51.4
2	916	17.9	4864	69.3
3	1256	10.7	5613	80.0
4	749	8.2	6185	88.2
5	235	3.3	6420	91.5
6	240	3.4	6660	94.9
7	113	1.6	6773	96.5
8	52	0.7	6825	97.3
9	36	0.5	6861	97.8
10	36	0.5	6897	98.3
11	2	0.0	6899	98.3
12	24	0.3	6923	98.7
13	5	0.1	6928	98.7
14	27	0.4	6955	99.1
15	7	0.1	6962	99.2
16	5	0.1	6967	99.3
17	1	0.0	6968	99.3
18	1	0.0	6969	99.3
19	12	0.2	6981	99.5
20	12	0.2	6993	99.7
21	2	0.0	6995	99.7
22	1	0.0	6996	99.7
23	1	0.0	6997	99.7
24	2	0.0	6999	99.8
25	1	0.0	7000	99.8
26	1	0.0	7001	99.8
27	12	0.2	7013	100.0
28	1	0.0	7014	100.0
29	2	0.0	7016	100.0

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AD9: TYPICAL WEEK..EXTRA MATH TUTORING

YTUTORL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0	768	37.2	2613	37.2
1	2613	14.6	3640	51.9
2	1237	17.6	4877	69.5
3	732	10.4	5609	79.9
4	602	8.6	6211	88.5
5	243	3.5	6454	92.0
6	216	3.1	6670	95.1
7	99	1.4	6769	96.5
8	66	0.9	6835	97.4
9	39	0.6	6874	98.0
10	30	0.4	6904	98.4
11	5	0.1	6909	98.5
12	9	0.1	6918	98.6
13	6	0.1	6924	98.7
14	23	0.3	6947	99.0
15	12	0.2	6959	99.2
16	3	0.0	6962	99.2
17	1	0.0	6963	99.2
18	8	0.1	6971	99.3
19	8	0.1	6979	99.5
20	12	0.2	6991	99.6
21	2	0.0	6993	99.7
22	2	0.0	6995	99.7
23	2	0.0	6997	99.7
24	1	0.0	6998	99.7
25	2	0.0	7000	99.8
26	13	0.2	7013	99.9
27	3	0.0	7016	100.0
28	1	0.0	7017	100.0

A8: HOW FREQUENT FAMILY HELP

YFAMILY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NEVER	109	48.5	3725	48.5
OCCASIONALLY	3833	49.9	7558	98.5
REGULARLY	118	1.5	7676	100.0

A8: USE OF ABACUS SOROBAN

YABACUS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY WITHIN HOME	2772	81.4	4080	81.4
ONLY IN MATH CLA	4080	7.1	4434	88.5
ONLY IN OTHER CL	354	3.6	4613	92.0
1 + 2 ONLY	179	3.7	4799	95.7
1 + 3 ONLY	186	2.7	4932	98.4
2 + 3 ONLY	133	0.5	4955	98.8
ALL THREE	23	1.2	5013	100.0

A9: USE OF SLIDE RULE

YSLIDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY WITHIN HOME	5034	58.0	1595	58.0
ONLY IN MATH CLA	1595	18.8	2113	76.8
ONLY IN OTHER CL	518	5.2	2256	82.0
1 + 2 ONLY	132	4.8	2388	86.8
1 + 3 ONLY	38	1.4	2426	88.2
2 + 3 ONLY	81	2.9	2507	91.1
ALL THREE	244	8.9	2751	100.0

A9: USE OF FOUR-FUNCTION CALCULATOR

YFFCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY WITHIN HOME	4061	86.2	3211	86.2
ONLY IN MATH CLA	3211	5.4	3412	91.6
ONLY IN OTHER CL	201	4.0	3561	95.6
1 + 2 ONLY	149	0.8	3589	96.4
1 + 3 ONLY	28	2.9	3696	99.2
2 + 3 ONLY	107	0.3	3706	99.5
ALL THREE	10	0.5	3724	100.0

A9: USE SCIENTIFIC PROGRAM CALCULATOR

YPPCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY WITHIN HOME	5870	71.5	1369	71.5
ONLY IN MATH CLA	1369	4.4	1454	75.9
ONLY IN OTHER CL	85	6.5	1578	82.4
1 + 2 ONLY	124	4.1	1656	86.5
1 + 3 ONLY	78	6.6	1782	93.1
2 + 3 ONLY	126	5.8	1893	98.9
ALL THREE	111	1.1	1915	100.0

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A9:USE PERSONAL COMPUTER OR TERMINAL

YCOMPTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
ONLY WITHIN HOME	6569			
ONLY IN MATH CLA	768	63.2	768	63.2
ONLY IN OTHER CL	69	5.7	837	68.8
1 + 2 ONLY	345	28.4	1182	97.2
1 + 3 ONLY	5	0.4	1187	97.6
2 + 3 ONLY	11	0.9	1198	98.5
ALL THREE	11	0.9	1209	99.4
	7	0.6	1216	100.0

A10:CALCULATOR USE FOR CHECKING ANSWERS

YCALCHK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	5819			
PROGRAM CALC ONL	1213	61.7	1213	61.7
COMPUTER ONLY	256	13.0	1469	74.7
1 + 2 ONLY	128	6.5	1597	81.2
1 + 3 ONLY	180	9.2	1777	90.4
2 + 3 ONLY	42	2.1	1819	92.5
ALL THREE	37	1.9	1856	94.4
	110	5.6	1966	100.0

A10:CALCULATOR USE FOR SOLVING PROBLEMS

YCALSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	6609			
PROGRAM CALC ONL	619	52.6	619	52.6
COMPUTER ONLY	215	18.3	834	70.9
1 + 2 ONLY	110	9.4	944	80.3
1 + 3 ONLY	117	9.9	1061	90.2
2 + 3 ONLY	27	2.3	1088	92.5
ALL THREE	33	2.8	1121	95.3
	55	4.7	1176	100.0

A10:CALCULATOR USE FOR TAKING TESTS

YCALTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	7290			
PROGRAM CALC ONL	171	34.5	171	34.5
COMPUTER ONLY	142	28.7	313	63.2
1 + 2 ONLY	95	19.2	408	82.4
1 + 3 ONLY	34	6.9	442	89.3
2 + 3 ONLY	9	1.8	451	91.1
ALL THREE	15	3.0	466	94.1
	29	5.9	495	100.0

A10:CALCULATOR AS AID IN DOING PROJECTS

YCALPRJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	6699			
PROGRAM CALC ONL	344	31.7	344	31.7
COMPUTER ONLY	200	18.4	544	50.1
1 + 2 ONLY	278	25.6	822	75.7
1 + 3 ONLY	73	6.7	895	82.4
2 + 3 ONLY	26	2.4	921	84.8
ALL THREE	79	7.3	1000	92.1
	86	7.9	1086	100.0

A10:CALCULATOR USE FOR RECREATION

YCALREC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	6248			
PROGRAM CALC ONL	707	46.0	707	46.0
COMPUTER ONLY	193	12.6	900	58.6
1 + 2 ONLY	346	22.5	1246	81.1
1 + 3 ONLY	97	6.3	1343	87.4
2 + 3 ONLY	46	3.0	1389	90.4
ALL THREE	65	4.2	1454	94.6
	83	5.4	1537	100.0

A10:CALCULATOR USE TO DO HOMEWORK

YCALHKW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
CALCULATOR ONLY	5944			
PROGRAM CALC ONL	1239	67.3	1239	67.3
COMPUTER ONLY	226	12.3	1465	79.6
1 + 2 ONLY	68	3.7	1533	83.3
1 + 3 ONLY	176	9.6	1709	92.8
2 + 3 ONLY	27	1.5	1736	94.3
ALL THREE	25	1.4	1761	95.7
	80	4.3	1841	100.0

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A11:FATHER SEEMS TO ENJOY DOING MATH

YFLIKES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	176			
SOMEWHAT LIKE	514	6.8	514	6.8
UNSURE	1470	19.3	1984	26.1
NOT VERY MUCH LI	5864	50.8	5864	76.9
NOT AT ALL LIKE	952	12.5	6800	89.4
	809	10.6	7609	100.0

A12:MOTHER SEEMS TO ENJOY DOING MATH

YMLIKES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	114			
SOMEWHAT LIKE	486	6.3	486	6.3
UNSURE	1516	19.8	2002	26.1
NOT VERY MUCH LI	3702	48.3	5704	74.4
NOT AT ALL LIKE	1133	14.8	6837	89.1
	834	10.9	7671	100.0

A13:FATHER ABLE TO DO MY MATH HOMEWORK

YFABLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	173			
SOMEWHAT LIKE	978	12.8	978	12.8
UNSURE	1486	19.5	2464	32.4
NOT VERY MUCH LI	1561	20.5	4025	52.9
NOT AT ALL LIKE	1185	15.6	5210	68.4
	2402	31.6	7612	100.0

A14:MOTHER ABLE TO DO MY MATH HOMEWORK

YMALE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	111			
SOMEWHAT LIKE	511	6.7	511	6.7
UNSURE	1471	19.2	1982	25.8
NOT VERY MUCH LI	1881	24.5	3863	50.3
NOT AT ALL LIKE	1463	19.1	5326	69.4
	2348	30.6	7674	100.0

A15:PARENTS INTERESTED HELPING IN MATH

YPINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	110			
SOMEWHAT LIKE	449	5.9	449	5.9
UNSURE	1291	16.8	1740	22.7
NOT VERY MUCH LI	2920	38.0	4660	60.7
NOT AT ALL LIKE	1117	14.6	5777	75.3
	1898	24.7	7675	100.0

A16:MOTHER THINKS MATH IMPORTANT FOR ME

YMIMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	119			
SOMEWHAT LIKE	3160	41.2	3160	41.2
UNSURE	2828	36.9	5988	78.1
NOT VERY MUCH LI	1343	17.5	7331	95.6
NOT AT ALL LIKE	167	2.2	7498	97.8
	168	2.2	7666	100.0

A17:FATHER THINKS MATH IMPORTANT FOR ME

YFIMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	175			
SOMEWHAT LIKE	2861	37.6	2861	37.6
UNSURE	2606	34.2	5467	71.8
NOT VERY MUCH LI	1692	22.2	7159	94.1
NOT AT ALL LIKE	173	2.3	7332	96.3
	278	3.7	7610	100.0

A18:PARENTS ENCOURAGE ME TO LEARN MATH

YPENC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	104			
SOMEWHAT LIKE	1376	17.9	1376	17.9
UNSURE	2641	34.4	4017	52.3
NOT VERY MUCH LI	2590	33.7	6607	86.0
NOT AT ALL LIKE	479	6.2	7086	92.3
	595	7.7	7681	100.0

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A19:PARENTS WANT ME TO DO WELL IN MATH

YPHANT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EXACTLY LIKE	100			
SOMEWHAT LIKE	4178	54.4	4178	54.4
UNSURE	2488	32.4	6666	86.7
NOT VERY MUCH LI	820	10.7	7486	97.4
NOT AT ALL LIKE	88	1.1	7574	98.6
	111	1.4	7685	100.0

B1:IMPORT..CHECKING AN ANSWER

YCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	139			
IMPORTANT	3736	48.9	3736	48.9
UNDECIDED	3304	43.2	7040	92.1
NOT IMPORTANT	498	6.5	7538	98.6
NOT AT ALL IMPOR	82	1.1	7620	99.7
	26	0.3	7646	100.0

B1:EASY..CHECKING AN ANSWER

YCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	187			
EASY	235	3.1	235	3.1
UNDECIDED	1299	17.1	1534	20.2
HARD	4563	60.1	6097	80.2
VERY HARD	1348	17.7	7445	98.0
	153	2.0	7598	100.0

B1:LIKE..CHECKING AN ANSWER

YCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	220			
LIKE	124	1.6	124	1.6
UNDECIDED	776	10.3	900	11.9
DISLIKE	4566	60.4	5466	72.3
DISLIKE A LOT	1714	22.7	7180	94.9
	385	5.1	7565	100.0

B2:IMPORT..MEMORIZING RULES FORMULAS

YMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	141			
IMPORTANT	4875	63.8	4875	63.8
UNDECIDED	2263	29.6	7138	93.4
NOT IMPORTANT	420	5.5	7558	98.9
NOT AT ALL IMPOR	64	0.8	7622	99.7
	22	0.3	7644	100.0

B2:EASY..MEMORIZING RULES FORMULAS

YMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	191			
EASY	195	2.6	195	2.6
UNDECIDED	1123	14.8	1318	17.4
HARD	3037	40.0	4355	57.3
VERY HARD	2914	38.4	7269	95.7
	325	4.3	7594	100.0

B2:LIKE..MEMORIZING RULES FORMULAS

YMEML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	217			
LIKE	268	3.5	268	3.5
UNDECIDED	1238	16.4	1506	19.9
DISLIKE	3985	52.7	5491	72.6
DISLIKE A LOT	1690	22.3	7181	94.9
	387	5.1	7568	100.0

B3:IMPORT..USING CHARTS GRAPHS

YCHRTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	146			
IMPORTANT	1722	22.5	1722	22.5
UNDECIDED	3712	48.6	5434	71.1
NOT IMPORTANT	1800	23.6	7234	94.7
NOT AT ALL IMPOR	370	4.8	7604	99.5
	35	0.5	7639	100.0

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B3:EASY..USING CHARTS GRAPHS

YCHRT E	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	194			
EASY	454	6.0	454	6.0
UNDECIDED	2359	31.1	2813	37.1
HARD	3609	47.5	6422	84.6
VERY HARD	1035	13.6	7457	98.2
	134	1.8	7591	100.0

B3:LIKE..USING CHARTS GRAPHS

YCHRTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	213			
LIKE	544	7.2	544	7.2
UNDECIDED	2195	29.0	2739	36.2
DISLIKE	3374	44.6	6113	80.7
DISLIKE A LOT	1138	15.0	7251	95.8
	321	4.2	7572	100.0

B4:IMPORT..SOLVING WORD PROBLEMS

YWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	146			
IMPORTANT	3901	51.1	3901	51.1
UNDECIDED	2810	36.8	6711	87.9
NOT IMPORTANT	768	10.1	7479	97.9
NOT AT ALL IMPOR	127	1.7	7606	99.6
	33	0.4	7639	100.0

B4:EASY..SOLVING WORD PROBLEMS

YWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	194			
EASY	118	1.6	118	1.6
UNDECIDED	479	6.3	597	7.9
HARD	2562	33.8	3159	41.6
VERY HARD	3476	45.8	6635	87.4
	956	12.6	7591	100.0

B4:LIKE..SOLVING WORD PROBLEMS

YWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	213			
LIKE	423	5.6	423	5.6
UNDECIDED	999	13.2	1422	18.8
DISLIKE	2688	35.5	4110	54.3
DISLIKE A LOT	2542	33.6	6652	87.8
	920	12.2	7572	100.0

B5:IMPORT..SOLVING EQUATIONS

YEQUIA I	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	154			
IMPORTANT	3608	47.3	3608	47.3
UNDECIDED	2805	36.8	6413	84.0
NOT IMPORTANT	949	12.4	7362	96.5
NOT AT ALL IMPOR	212	2.8	7574	99.3
	57	0.7	7631	100.0

B5:EASY..SOLVING EQUATIONS

YEQUAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	182			
EASY	650	8.5	650	8.5
UNDECIDED	1990	26.2	2640	34.7
HARD	2761	36.3	5401	71.0
VERY HARD	1763	23.2	7164	94.2
	439	5.8	7603	100.0

B5:LIKE..SOLVING EQUATIONS

YEQUAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	184			
LIKE	1208	15.9	1208	15.9
UNDECIDED	2260	29.7	3468	45.6
DISLIKE	2479	32.6	5947	78.2
DISLIKE A LOT	1170	15.4	7117	93.6
	484	6.4	7601	100.0

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B6:IMPORT..SOLVING INEQUALITIES

YINEQI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	166			
IMPORTANT	1590	20.9	1590	20.9
UNDECIDED	3066	40.2	4656	61.1
NOT IMPORTANT	2392	31.4	7048	92.5
NOT AT ALL IMPOR	491	6.4	7539	98.9
	80	1.1	7619	100.0

B6:EASY..SOLVING INEQUALITIES

YINEQE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	201			
EASY	247	3.3	247	3.3
UNDECIDED	1147	15.1	1394	18.4
HARD	4530	59.7	5924	78.1
VERY HARD	1436	18.9	7360	97.0
	224	3.0	7584	100.0

B6:LIKE..SOLVING INEQUALITIES

YINEQL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	216			
LIKE	208	2.7	208	2.7
UNDECIDED	864	11.4	1072	14.2
DISLIKE	4600	60.8	5672	74.9
DISLIKE A LOT	1515	20.0	7187	95.0
	382	5.0	7569	100.0

B7:IMPORT..LEARN GEOMETRIC FIGURES

YGEOMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	149			
IMPORTANT	1750	22.9	1750	22.9
UNDECIDED	3102	40.6	4852	63.5
NOT IMPORTANT	1996	26.1	6848	89.7
NOT AT ALL IMPOR	697	9.1	7545	98.8
	91	1.2	7636	100.0

B7:EASY..LEARNING GEOMETRIC FIGURES

YGEOME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	191			
EASY	398	5.2	398	5.2
UNDECIDED	1762	23.2	2160	28.4
HARD	3657	48.2	5817	76.6
VERY HARD	1507	19.8	7324	96.4
	270	3.6	7594	100.0

B7:LIKE..LEARNING GEOMETRIC FIGURES

YGEOML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	196			
LIKE	695	9.2	695	9.2
UNDECIDED	2045	26.9	2740	36.1
DISLIKE	3179	41.9	5919	78.0
DISLIKE A LOT	1256	16.6	7175	94.5
	414	5.5	7589	100.0

B8:IMPORT..ESTIMATING ANSWERS

YESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	149			
IMPORTANT	1415	18.5	1415	18.5
UNDECIDED	3105	40.7	4520	59.2
NOT IMPORTANT	2448	32.1	6968	91.3
NOT AT ALL IMPOR	591	7.7	7559	99.0
	77	1.0	7636	100.0

B8:EASY..ESTIMATING ANSWERS

YESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	188			
EASY	157	2.1	157	2.1
UNDECIDED	1068	14.1	1225	16.1
HARD	4789	63.0	6014	79.2
VERY HARD	1426	18.8	7440	97.9
	157	2.1	7597	100.0

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B8:LIKE..ESTIMATING ANSWERS

YESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	198			
LIKE	161	2.1	161	2.1
UNDECIDED	761	10.0	922	12.2
DISLIKE	5111	67.4	6033	79.5
DISLIKE A LOT	1284	16.9	7317	96.4
	270	3.6	7587	100.0

B9:IMPORT..LEARNING RATIO PROPORTION

YRATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	151			
IMPORTANT	1962	25.7	1962	25.7
UNDECIDED	3439	45.0	5401	70.7
NOT IMPORTANT	1758	23.0	7159	93.8
NOT AT ALL IMPOR	411	5.4	7570	99.2
	64	0.8	7634	100.0

B9:EASY..LEARNING RATIO PROPORTION

YRATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	188			
EASY	259	3.4	259	3.4
UNDECIDED	1450	19.1	1709	22.5
HARD	3974	52.3	5683	74.8
VERY HARD	1690	22.2	7373	97.1
	224	2.9	7597	100.0

B9:LIKE..LEARNING RATIO PROPORTION

YRATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	201			
LIKE	320	4.2	320	4.2
UNDECIDED	1442	19.0	1762	23.2
DISLIKE	3855	50.8	5617	74.1
DISLIKE A LOT	1583	20.9	7200	94.9
	384	5.1	7584	100.0

B10:IMPORT..DECIMAL FRACTION PROBLEMS

YDECI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	155			
IMPORTANT	2240	29.4	2240	29.4
UNDECIDED	3479	45.6	5719	75.0
NOT IMPORTANT	1550	20.3	7269	95.3
NOT AT ALL IMPOR	322	4.2	7591	99.5
	39	0.5	7630	100.0

B10:EASY..DECIMAL FRACTION PROBLEMS

YDECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	183			
EASY	312	4.1	312	4.1
UNDECIDED	1745	23.0	2057	27.1
HARD	3951	52.0	6008	79.0
VERY HARD	1429	18.8	7437	97.8
	165	2.2	7602	100.0

B10:LIKE..DECIMAL FRACTION PROBLEMS

YDECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	201			
LIKE	286	3.8	286	3.8
UNDECIDED	1403	18.5	1689	22.3
DISLIKE	3813	50.3	5502	72.5
DISLIKE A LOT	1675	22.1	7177	94.6
	407	5.4	7584	100.0

B11:IMPORT..WORKING WITH SETS

YSETSI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	158			
IMPORTANT	1273	16.7	1273	16.7
UNDECIDED	2722	35.7	3995	52.4
NOT IMPORTANT	2460	32.3	6455	84.6
NOT AT ALL IMPOR	981	12.9	7436	97.5
	191	2.5	7627	100.0

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B11:EASY..WORKING WITH SETS

YSETSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	186			
EASY	293	3.9	293	3.9
UNDECIDED	1805	23.8	2098	27.6
HARD	4002	52.7	6100	80.3
VERY HARD	1263	16.6	7363	96.9
	236	3.1	7599	100.0

B11:LIKE..WORKING WITH SETS

YSETSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	185			
LIKE	295	3.9	295	3.9
UNDECIDED	1329	17.5	1624	21.4
DISLIKE	3859	50.8	5483	72.1
DISLIKE A LOT	1639	21.6	7122	93.7
	478	6.3	7600	100.0

B12:IMPORT..LEARNING UNITS OF MEASURE

YMEASI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	148			
IMPORTANT	3656	47.9	3656	47.9
UNDECIDED	3012	39.4	6668	87.3
NOT IMPORTANT	781	10.2	7449	97.5
NOT AT ALL IMPOR	157	2.1	7606	99.6
	31	0.4	7637	100.0

B12:EASY..LEARNING UNITS OF MEASURE

YMEASE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	185			
EASY	316	4.2	316	4.2
UNDECIDED	1572	20.7	1888	24.8
HARD	3331	43.8	5219	68.7
VERY HARD	2038	26.8	7257	95.5
	343	4.5	7600	100.0

B12:LIKE..LEARNING UNITS OF MEASURE

YMEASL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	200			
LIKE	482	6.4	482	6.4
UNDECIDED	1869	24.6	2351	31.0
DISLIKE	3120	41.1	5471	72.1
DISLIKE A LOT	1641	21.6	7112	93.8
	473	6.2	7585	100.0

B13:IMPORT..DRAWING GEOMETRIC FIGURES

YDRAWI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	163			
IMPORTANT	1706	22.4	1706	22.4
UNDECIDED	3137	41.2	4843	63.5
NOT IMPORTANT	2040	26.8	6883	90.3
NOT AT ALL IMPOR	649	8.5	7532	98.8
	90	1.2	7622	100.0

B13:EASY..DRAWING GEOMETRIC FIGURES

YDRAWL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	184			
EASY	563	7.4	563	7.4
UNDECIDED	2450	32.2	3013	39.6
HARD	3304	43.5	6317	83.1
VERY HARD	1130	14.9	7447	98.0
	154	2.0	7601	100.0

B13:LIKE..DRAWING GEOMETRIC FIGURES

YDRAWL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	172			
LIKE	1089	14.3	1089	14.3
UNDECIDED	2558	33.6	3647	47.9
DISLIKE	2653	34.8	6300	82.8
DISLIKE A LOT	1025	13.5	7325	96.2
	288	3.8	7613	100.0

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B14:IMPORT..STATISTICAL TABLES

YSTATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	189			
IMPORTANT	2081	27.4	2081	27.4
UNDECIDED	3200	42.1	5281	69.5
NOT IMPORTANT	1965	25.9	7246	95.4
NOT AT ALL IMPOR	300	3.9	7546	99.3
	50	0.7	7596	100.0

B14:EASY..STATISTICAL TABLES

YSTATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	207			
EASY	186	2.5	186	2.5
UNDECIDED	983	13.0	1169	15.4
HARD	4466	58.9	5635	74.4
VERY HARD	1679	22.2	7314	96.5
	264	3.5	7578	100.0

B14:LIKE..STATISTICAL TABLES

YSTATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	213			
LIKE	224	3.0	224	3.0
UNDECIDED	874	11.5	1098	14.5
DISLIKE	4414	58.3	5512	72.8
DISLIKE A LOT	1654	21.8	7166	94.6
	406	5.4	7572	100.0

B15:IMPORT..COMPARE GEOMETRIC FIGURES

YFIGI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	216			
IMPORTANT	936	12.4	936	12.4
UNDECIDED	2384	31.5	3320	43.9
NOT IMPORTANT	3294	43.5	6614	87.4
NOT AT ALL IMPOR	825	10.9	7439	98.3
	130	1.7	7569	100.0

B15:EASY..COMPARING GEOMETRIC FIGURES

YFIGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	230			
EASY	286	3.8	286	3.8
UNDECIDED	1385	18.3	1671	22.1
HARD	4809	63.7	6480	85.8
VERY HARD	923	12.2	7403	98.0
	152	2.0	7555	100.0

B15:LIKE..COMPARING GEOMETRIC FIGURES

YFIGL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	247			
LIKE	255	3.4	255	3.4
UNDECIDED	1032	13.7	1287	17.1
DISLIKE	4893	64.9	6180	82.0
DISLIKE A LOT	1101	14.6	7281	96.6
	257	3.4	7538	100.0

IMPORT..WORKING WITH FRACTIONS

YFRACI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	155			
IMPORTANT	2302	30.2	2302	30.2
UNDECIDED	3429	44.9	5731	75.1
NOT IMPORTANT	1518	19.9	7249	95.0
NOT AT ALL IMPOR	324	4.2	7573	99.3
	57	0.7	7630	100.0

EASY..WORKING WITH FRACTIONS

YFRACE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	190			
EASY	324	4.3	324	4.3
UNDECIDED	1545	20.3	1869	24.6
HARD	3674	48.4	5543	73.0
VERY HARD	1792	23.6	7335	96.6
	260	3.4	7595	100.0

JAPAN -- POPULATION A
STUDENT POSTTEST QUESTIONNAIRE

LIKE..WORKING WITH FRACTIONS

YFRACL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	203			
LIKE	485	6.4	485	6.4
UNDECIDED	1644	21.7	2129	28.1
DISLIKE	3271	43.1	5400	71.2
DISLIKE A LOT	1738	22.9	7138	94.1
	444	5.9	7582	100.0

IMPORT..HISTORY OF MATH

YMHIST1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY IMPORTANT	174			
IMPORTANT	955	12.5	955	12.5
UNDECIDED	1830	24.0	2785	36.6
NOT IMPORTANT	3186	41.9	5971	78.5
NOT AT ALL IMPOR	1316	17.3	7287	95.7
	324	4.3	7611	100.0

EASY..HISTORY OF MATH

YMHISTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY EASY	198			
EASY	236	3.1	236	3.1
UNDECIDED	528	7.0	764	10.1
HARD	5170	68.1	5934	78.2
VERY HARD	1331	17.5	7265	95.8
	322	4.2	7587	100.0

LIKE..HISTORY OF MATH

YMHISTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
LIKE A LOT	202			
LIKE	632	8.3	632	8.3
UNDECIDED	1125	14.8	1757	23.2
DISLIKE	4057	53.5	5814	76.7
DISLIKE A LOT	1278	16.9	7092	93.5
	491	6.5	7583	100.0

C1:WORD PROBLEMS FUN WITH CALCULATOR

YFUNCL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	90			
DISAGREE	334	4.3	334	4.3
UNDECIDED	1070	13.9	1404	18.2
AGREE	4894	63.6	6298	81.8
STRONGLY AGREE	1122	14.6	7420	96.4
	275	3.6	7695	100.0

C2:I CAN GET ALONG WELL WITHOUT MATH

YGOWO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	98			
DISAGREE	124	1.6	124	1.6
UNDECIDED	481	6.3	605	7.9
AGREE	3451	44.9	4056	52.8
STRONGLY AGREE	3068	39.9	7124	92.7
	563	7.3	7687	100.0

C3:I USUALLY UNDERSTAND MATH CLASS

YUSTAND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	103			
DISAGREE	410	5.3	410	5.3
UNDECIDED	2041	26.6	2451	31.9
AGREE	4048	52.7	6499	84.6
STRONGLY AGREE	1028	13.4	7527	98.0
	155	2.0	7682	100.0

C4:I WILL WORK TO UNDERSTAND MATH IDEA

YMRKLG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	92			
DISAGREE	214	2.8	214	2.8
UNDECIDED	822	10.7	1036	13.5
AGREE	3729	48.5	4765	61.9
STRONGLY AGREE	2409	31.3	7174	93.3
	519	6.7	7693	100.0

JAPAN -- POPULATION A
STUDENT POSTTEST QUESTIONNAIRE

C5:MATH NOT NEEDED IN MOST OCCUPATIONS

YNOTNEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	99			
DISAGREE	124	1.6	124	1.6
UNDECIDED	514	6.7	638	8.3
AGREE	3403	44.3	4041	52.6
STRONGLY AGREE	3045	39.6	7086	92.2
	600	7.8	7686	100.0

C6:I WANT TO DO WELL IN MATHEMATICS

YIWANT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	126			
DISAGREE	125	1.6	125	1.6
UNDECIDED	432	5.6	557	7.3
AGREE	3913	51.1	4470	58.4
STRONGLY AGREE	2794	36.5	7264	94.8
	395	5.2	7659	100.0

C7:WOULD LIKE JOB THAT USES MATH

YJOBUSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	99			
DISAGREE	139	1.8	139	1.8
UNDECIDED	444	5.8	583	7.6
AGREE	1600	20.8	2183	28.4
STRONGLY AGREE	4379	57.0	6562	85.4
	1124	14.6	7686	100.0

C8:NO NEW MATH DISCOVERIES LATELY

YNONEW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	94			
DISAGREE	1024	13.3	1024	13.3
UNDECIDED	2584	33.6	3608	46.9
AGREE	3015	39.2	6623	86.1
STRONGLY AGREE	889	11.6	7512	97.7
	179	2.3	7691	100.0

C9:MATH HELPS ONE THINK LOGICALLY

YMTHLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	92			
DISAGREE	438	5.7	438	5.7
UNDECIDED	1404	18.3	1842	23.9
AGREE	2847	37.0	4689	61.0
STRONGLY AGREE	2408	31.3	7097	92.3
	596	7.7	7693	100.0

C10:I FEEL GOOD IF I SOLVE MATH PROBLEM

YFLGOOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	98	1.3	98	1.3
UNDECIDED	468	6.1	566	7.4
AGREE	3332	43.4	3898	50.7
STRONGLY AGREE	3207	41.7	7105	92.5
	578	7.5	7683	100.0

C11:CALCULATOR MEANS NOT LEARN COMPUTE

YNOCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	96			
DISAGREE	153	2.0	153	2.0
UNDECIDED	723	9.4	876	11.4
AGREE	1971	25.6	2847	37.0
STRONGLY AGREE	3642	47.4	6489	84.4
	1200	15.6	7689	100.0

C12:COMPUTER MAKES LEARNING MATH BORING

YBORING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	396	5.2	396	5.2
UNDECIDED	1502	19.5	1898	24.7
AGREE	4737	61.7	6635	86.4
STRONGLY AGREE	847	11.0	7482	97.4
	201	2.6	7683	100.0

JAPAN -- POPULATION A
STUDENT POSTTEST QUESTIONNAIRE

C13:MATH NOT NEEDED FOR EVERYDAY LIVING

YNONEED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	97			
DISAGREE	287	3.7	287	3.7
UNDECIDED	1040	13.5	1327	17.3
AGREE	3671	47.7	4998	65.0
STRONGLY AGREE	2227	29.0	7225	94.0
	463	6.0	7688	100.0

C14:PARENTS WANT ME TO DO WELL IN MATH

YPMWELL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	100			
DISAGREE	118	1.5	118	1.5
UNDECIDED	631	8.2	749	9.7
AGREE	2824	36.7	3573	46.5
STRONGLY AGREE	3480	45.3	7053	91.8
	632	8.2	7685	100.0

C15:I THINK MATHEMATICS IS FUN

YFUM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	129	1.7	129	1.7
UNDECIDED	404	5.3	533	6.9
AGREE	3889	50.7	4422	57.6
STRONGLY AGREE	2636	34.3	7058	92.0
	617	8.0	7675	100.0

C16:EVERYONE SHOULD LEARN COMPUTERS

YALLCMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	98			
DISAGREE	86	1.1	86	1.1
UNDECIDED	122	1.6	208	2.7
AGREE	1161	15.1	1369	17.8
STRONGLY AGREE	2890	37.6	4259	55.4
	3428	44.6	7687	100.0

C17:MATH CHANGE RAPIDLY IN NEAR FUTURE

YCHANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	99			
DISAGREE	50	0.7	50	0.7
UNDECIDED	111	1.4	161	2.1
AGREE	2308	30.0	2469	32.1
STRONGLY AGREE	2765	36.0	5234	68.1
	2452	31.9	7686	100.0

C18:A WOMAN NEEDS CAREER AS MUCH AS MAN

YHOMCAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	1300	16.9	1300	16.9
UNDECIDED	1654	21.5	2954	38.4
AGREE	3481	45.3	6435	83.8
STRONGLY AGREE	855	11.1	7290	94.9
	393	5.1	7683	100.0

C19:ALWAYS RULE SOLVING A MATH PROBLEM

YALWRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	98			
DISAGREE	43	0.6	43	0.6
UNDECIDED	57	0.7	100	1.3
AGREE	889	11.6	989	12.9
STRONGLY AGREE	2920	38.0	3909	50.9
	3778	49.1	7687	100.0

C20:IT SCARES ME TO HAVE TO TAKE MATH

YSCARED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	96			
DISAGREE	120	1.6	120	1.6
UNDECIDED	352	4.6	472	6.1
AGREE	3696	48.1	4168	54.2
STRONGLY AGREE	2896	37.7	7064	91.9
	625	8.1	7689	100.0

JAPAN -- POPULATION A
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C21:MATH IS IMPORTANT TO GET A GOOD JOB

YMHJOB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	96			
DISAGREE	409	5.3	409	5.3
UNDECIDED	1147	14.9	1556	20.2
AGREE	2872	37.4	4428	57.6
STRONGLY AGREE	2410	31.3	6838	88.9
	851	11.1	7689	100.0

C22:COULD NEVER BE A GOOD MATHEMATICIAN

YNEVER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	104			
DISAGREE	316	4.1	316	4.1
UNDECIDED	790	10.3	1106	14.4
AGREE	4755	61.9	5861	76.3
STRONGLY AGREE	1460	19.0	7321	95.3
	360	4.7	7681	100.0

C23:I LIKE TO HELP OTHERS WITH MATH

YHELPO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	109			
DISAGREE	878	11.4	878	11.4
UNDECIDED	2336	30.4	3214	41.9
AGREE	3122	40.7	6336	82.5
STRONGLY AGREE	794	10.3	7130	92.9
	546	7.1	7676	100.0

C24:WORKING WITH NUMBERS MAKES ME HAPPY

YHAPPY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	106			
DISAGREE	709	9.2	709	9.2
UNDECIDED	1540	20.1	2249	29.3
AGREE	3295	42.9	5544	72.2
STRONGLY AGREE	1513	19.7	7057	91.9
	622	8.1	7679	100.0

C25:TRIAL AND ERROR CAN OFTEN BE USED

YTAESLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	106			
DISAGREE	366	4.8	366	4.8
UNDECIDED	1231	16.0	1597	20.8
AGREE	3825	49.8	5422	70.6
STRONGLY AGREE	1597	20.8	7019	91.4
	660	8.6	7679	100.0

C26:COMPUTERS SOLVE BETTER THAN PEOPLE

YCMPSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	108			
DISAGREE	189	2.5	189	2.5
UNDECIDED	938	12.2	1127	14.7
AGREE	4307	56.1	5434	70.8
STRONGLY AGREE	1767	23.0	7201	93.8
	476	6.2	7677	100.0

C27:I AM NOT SO GOOD AT MATHEMATICS

YING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	109			
DISAGREE	115	1.5	115	1.5
UNDECIDED	308	4.0	423	5.5
AGREE	2637	34.4	3060	39.9
STRONGLY AGREE	2765	36.0	5825	75.9
	1851	24.1	7676	100.0

C28:I FEEL CHALLENGED BY DIFFICULT MATH

YCHALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	104			
DISAGREE	855	11.1	855	11.1
UNDECIDED	2500	32.5	3355	43.7
AGREE	3319	43.2	6674	86.9
STRONGLY AGREE	701	9.1	7375	96.0
	306	4.0	7681	100.0

JAPAN -- POPULATION A
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C29: LEARNING MATH MOSTLY MEMORIZING

YMEMRZG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	109			
DISAGREE	480	6.3	480	6.3
UNDECIDED	1394	18.2	1874	24.4
AGREE	4211	54.9	6085	79.3
STRONGLY AGREE	1254	16.3	7339	95.6
	337	4.4	7676	100.0

C30: WHEN CAN'T SOLVE...FEEL LOST IN MAZE

YINMAZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	112			
DISAGREE	492	6.4	492	6.4
UNDECIDED	1422	18.5	1914	24.9
AGREE	4528	59.0	6442	84.0
STRONGLY AGREE	999	13.0	7441	97.0
	232	3.0	7673	100.0

C31: MATH PROBLEMS SOLVED WITHOUT RULES

YWORULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	103			
DISAGREE	814	10.6	814	10.6
UNDECIDED	2480	32.3	3294	42.9
AGREE	3644	47.4	6938	90.3
STRONGLY AGREE	506	6.6	7444	96.9
	238	3.1	7682	100.0

C32: LOOKING FORWARD TO TAKING MORE MATH

YMORMTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	507	6.6	507	6.6
UNDECIDED	1731	22.5	2238	29.1
AGREE	4492	58.5	6730	87.6
STRONGLY AGREE	784	10.2	7514	97.8
	169	2.2	7683	100.0

C33: COMPUTERS DO GOOD THINGS FOR PEOPLE

YCOMPOK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	103			
DISAGREE	635	8.3	635	8.3
UNDECIDED	1226	16.0	1861	24.2
AGREE	3136	40.8	4997	65.0
STRONGLY AGREE	1997	26.0	6994	91.0
	688	9.0	7682	100.0

C34: MATH GOOD FIELD FOR CREATIVE PEOPLE

YCREATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	127	1.7	127	1.7
UNDECIDED	407	5.3	534	7.0
AGREE	2362	30.7	2896	37.7
STRONGLY AGREE	3624	47.2	6520	84.9
	1163	15.1	7683	100.0

C35: NOT WELL IN MATH HOWEVER HARD I TRY

YNOTWLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	432	5.6	432	5.6
UNDECIDED	662	8.6	1094	14.2
AGREE	2983	38.8	4077	53.1
STRONGLY AGREE	2284	29.7	6361	82.8
	1322	17.2	7683	100.0

C36: NOT FUN TO LEARN MATH IF CALCULATOR

YLSSFUN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	106			
DISAGREE	696	9.1	696	9.1
UNDECIDED	1003	13.1	1699	22.1
AGREE	4173	54.3	5872	76.5
STRONGLY AGREE	1118	14.6	6990	91.0
	689	9.0	7679	100.0

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C37: MATH HARDER FOR ME THAN MOST PEOPLE

YHARDER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	113			
DISAGREE	485	6.3	485	6.3
UNDECIDED	810	10.6	1295	16.9
AGREE	3560	46.4	4855	63.3
STRONGLY AGREE	1930	25.2	6785	88.4
	887	11.6	7672	100.0

C38: MEN BETTER SCIENTISTS AND ENGINEERS

YMENBET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	102			
DISAGREE	262	3.4	262	3.4
UNDECIDED	560	7.3	822	10.7
AGREE	3319	43.2	4141	53.9
STRONGLY AGREE	2388	31.1	6529	85.0
	1154	15.0	7683	100.0

C39: MATH USEFUL IN EVERYDAY PROBLEMS

YUSEDAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	195	2.5	195	2.5
UNDECIDED	344	4.5	539	7.0
AGREE	2521	32.8	3060	39.9
STRONGLY AGREE	3010	39.2	6070	79.1
	1605	20.9	7675	100.0

C40: MATH HELPS TO THINK IN STRICT RULES

YRULES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	115			
DISAGREE	1137	14.8	1137	14.8
UNDECIDED	2937	38.3	4074	53.1
AGREE	2870	37.4	6944	90.5
STRONGLY AGREE	515	6.7	7459	97.2
	211	2.8	7670	100.0

C41: REFUSE TO SPEND OWN TIME DOING MATH

YNOTIME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	810	10.6	810	10.6
UNDECIDED	1407	18.3	2217	28.9
AGREE	4111	53.6	6328	82.4
STRONGLY AGREE	951	12.4	7279	94.8
	396	5.2	7675	100.0

C42: MATH HAS PRACTICAL USE FOR JOBS

YPRACT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	111			
DISAGREE	245	3.2	245	3.2
UNDECIDED	632	8.2	877	11.4
AGREE	3968	51.7	4845	63.1
STRONGLY AGREE	2272	29.6	7117	92.7
	557	7.3	7674	100.0

C43: NO PLACE FOR ORIGINALITY IN MATH

YLTORIG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	107			
DISAGREE	606	7.9	606	7.9
UNDECIDED	2262	29.5	2868	37.4
AGREE	3838	50.0	6706	87.3
STRONGLY AGREE	697	9.1	7403	96.4
	275	3.6	7678	100.0

C44: BOYS HAVE MORE NATURAL MATH ABILITY

YBOYSAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	143	1.9	143	1.9
UNDECIDED	416	5.4	559	7.3
AGREE	3015	39.3	3574	46.6
STRONGLY AGREE	3203	41.7	6777	88.3
	898	11.7	7675	100.0

JAPAN -- POPULATION A
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C45: MATHEMATICS IS A SET OF RULES

YMTHRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	1169	15.2	1169	15.2
UNDECIDED	3186	41.5	4355	56.7
AGREE	2696	35.1	7049	91.8
STRONGLY AGREE	431	5.6	7480	97.5
	195	2.5	7675	100.0

C46: MOST DON'T USE MATH IN THEIR JOBS

YNOUSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	110			
DISAGREE	1055	13.7	1055	13.7
UNDECIDED	3335	43.5	4390	57.2
AGREE	2733	35.6	7123	92.8
STRONGLY AGREE	398	5.2	7521	98.0
	154	2.0	7675	100.0

C47: ESTIMATING IS IMPORTANT MATH SKILL

YESTIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	113			
DISAGREE	268	3.5	268	3.5
UNDECIDED	796	10.4	1064	13.9
AGREE	3400	44.3	4464	58.2
STRONGLY AGREE	2433	31.7	6897	89.9
	775	10.1	7672	100.0

C48: MANY WAYS TO SOLVE MATH PROBLEMS

YMNWYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	111			
DISAGREE	979	12.8	979	12.8
UNDECIDED	2444	31.8	3423	44.6
AGREE	2172	28.3	5595	72.9
STRONGLY AGREE	1646	21.4	7241	94.3
	633	8.2	7874	100.0

C49: I USUALLY FEEL CALM WHEN DOING MATH

YCALM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	123			
DISAGREE	872	11.4	872	11.4
UNDECIDED	1987	25.9	2859	37.3
AGREE	3697	48.3	6556	85.6
STRONGLY AGREE	848	11.1	7404	96.6
	258	3.4	7662	100.0

C50: CALCULATORS HELP LEARN MATH TOPICS

YCALHLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	109			
DISAGREE	1004	13.1	1004	13.1
UNDECIDED	2207	28.8	3211	41.8
AGREE	3481	45.3	6692	87.2
STRONGLY AGREE	750	9.8	7442	97.0
	234	3.0	7676	100.0

C51: BOYS NEED MORE MATH THAN GIRLS

YBOYSND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	120			
DISAGREE	515	6.7	515	6.7
UNDECIDED	794	10.4	1309	17.1
AGREE	3175	41.4	4484	58.5
STRONGLY AGREE	2233	29.1	6717	87.6
	948	12.4	7665	100.0

C52: IF CHOICE I WOULDNT LEARN MORE MATH

YNOMORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	131			
DISAGREE	347	4.5	347	4.5
UNDECIDED	663	8.7	1010	13.2
AGREE	4070	53.2	5080	66.4
STRONGLY AGREE	1778	23.2	6858	89.6
	796	10.4	7654	100.0

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C53: NEW DISCOVERIES IN MATH BEING MADE

YNEWDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	122			
DISAGREE	512	6.7	512	6.7
UNDECIDED	1261	16.5	1773	23.1
AGREE	4253	55.5	6026	78.6
STRONGLY AGREE	1184	15.5	7210	94.1
	453	5.9	7663	100.0

C54: MATH CAN BE SOLVED DIFFERENT WAYS

YDIFWAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	122			
DISAGREE	433	5.7	433	5.7
UNDECIDED	834	10.9	1267	16.5
AGREE	3734	48.7	5001	65.3
STRONGLY AGREE	1989	26.0	6990	91.2
	673	8.8	7663	100.0

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